

# Control and Signalling Devices

## Pushbutton Units and Indicator Lights

### 16 mm mounting diameter, moulded-plastic



nsd0005y

#### 3SB 2

##### Selection and ordering data

- 3SB22 complete units
- 3SB20 actuators and lens assemblies
- 3SB2 holders, lampholders and contact blocks
- 3SB29 accessories

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### 22 mm mounting diameter, moulded-plastic



nsd0138y

#### SIGNUM 3SB3, round

##### Selection and ordering data

- 3SB32 complete units
- 3SB30 actuators and lens assemblies with holder
- 3SB34 contact blocks and lampholders
- 3SB19, 3SB39 accessories

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### 26 mm x 26 mm mounting cutout, moulded-plastic



nsd0139y

#### SIGNUM 3SB3, square

##### Selection and ordering data

- 3SB33 complete units
- 3SB31 actuators and lens assemblies with holder
- 3SB34 contact blocks and lampholders
- 3SB39 accessories

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### 22 mm mounting diameter, moulded-plastic



nsd0149y

#### SIGNUM 3SB3

##### Selection and ordering data

- 3SB31 double pushbuttons
- 3SB34 contact blocks and lampholders
- 3SB39 accessories

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### Enclosed devices, 22 mm mounting diameter



nsd0153y

#### SIGNUM 3SB3

##### Selection and ordering data

- 3SB34 contact blocks and lampholders
- 3SB38 empty enclosures
- 3SB38 enclosures with standard equipment
- 3SB38 enclosures with choice of equipment
- 3SB39 accessories, labels

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### Communication-capable switching devices



#### SIGNUM 3SF3

- The communication-capable command devices are listed in Section 1

### 22 mm mounting diameter, metal



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### Enclosed devices, nominal diameter 22 mm



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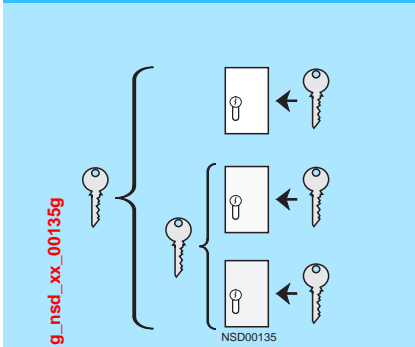
### Complete operator panels



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### Main and general master key systems



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• On request	

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### Customer-specific enclosures



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• You can order the relevant design software from the Fürth Logistics Center Order No.: E20001-D0100-P221-V2-6400 Fax: (x49 911) 6 54-42 71	

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# Pushbutton Units and Indicator Lights

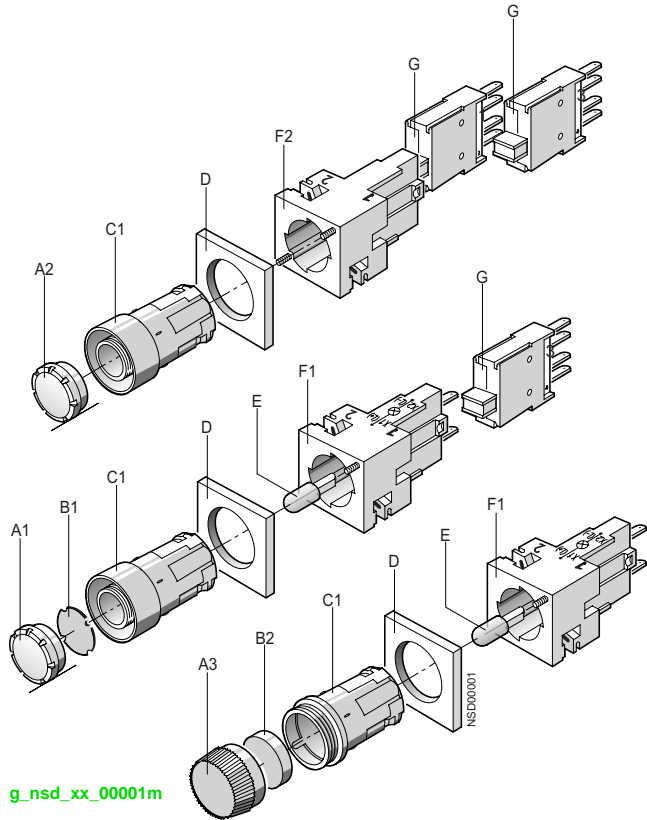
## 3SB2, Mounting Diameter 16 mm

### Introduction

#### Design

The 3SB2 pushbuttons and indicator lights are provided for front plate mounting and rear conductor connection.

The 3SB units are climate-proof.



- A1 Illuminated pushbutton, flat
- A2 Pushbutton, flat
- A3 Screw lens for indicator light
- B1 Insert label for inscription
- B2 Insert cap for inscription
- C1 Collar with extruded front ring
- C2 Collar for indicator light
- D Frame for square design
- E Wedge-Base lamps W2 × 4.6 d
- F1 Lampholder with holder
- F2 Holder
- G Contact blocks for snapping onto holder and/or lampholder (1 NO or 1 NC)

Two versions are available:

#### Round design

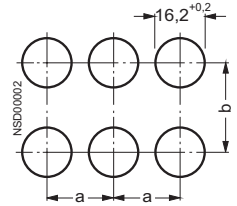
The 3SB2 pushbuttons and indicator lights are assembled with the elements – actuator, holder, contact block and lampholder. Depending on the specific application, various versions can be assembled. Complete units are offered for the most commonly used applications.

#### Square design

With square, black frames the round units can be given a square look. The frames are inserted underneath the round actuators. Further mounting is the same as for the round design.

#### Mounting and fixing

Mounting dimensions acc. to EN 50 007:



Minimum clearance	a	b
Round design	19	19
Square design without inscription plate	21	21
Round and square designs with inscription plates	21	32
2 rotary buttons and 3 switching positions, maintained contact, side by side	21	21

For fixing, the actuator or the lens assembly is inserted from the front into the hole in the frontplate. Four small nubs ensure a secure fitting in the hole. The holder is plugged on the actuator or the lens assembly from behind and automatically snaps into place. The element is screwed down tightly with screws on the holder and thus levels panel thickness from 1 to 6 mm.

The contact blocks are inserted into the holder with slide slots and held down with two snap brackets. If a command position is equipped with an indicator light or illuminated pushbutton, the holder already incorporates connections for the lamp. It is also used for fixing the contact blocks.

#### Connections

The contact blocks and the lamp holder are equipped with tab connectors in accordance with IEC 60 760 which can also be used as solder-pin terminals.

To permit through-connection all terminals are provided with two tabs.

#### Technical data according to IEC 60 947-5-1 (DIN VDE 0660 Part 200)



<b>Rated insulation voltage <math>U_i</math></b>	250 V
<b>Rated operational voltage <math>U_e</math></b>	250 V AC/DC
<b>Conventional thermal current <math>I_{th}</math> = rated operational current <math>I_e/AC-12</math></b>	10 A
<b>Rated operational currents</b>	
• $I_e/AC-15$	at 24 V 4 A 60 V 4 A 110 V 4 A 230 V 4 A
• $I_e/DC-12$	at 24 V 6 A 60 V 5 A 110 V 2.5 A 230 V 1 A
• $I_e/DC-13$	at 24 V 3 A 60 V 1.5 A 110 V 0.7 A 230 V 0.3 A
<b>CE, RoHS and REACH data</b>	
Rated voltage	
• Contact blocks	250 V AC max.
• Indicator light, lamp with wedge base W2 x 4.6 d	max. 60 V; 1 W
Conventional free-air thermal current	5 A
Switching capacity	B 300, R 300 (see Section 17)
<b>Contact safety</b>	
Test voltage/test current	5 V/1 mA
<b>Short-circuit protection</b> (without any welding according to DIN VDE 0660, Part 200)	
• DIAZED fuse left, utilization category gL/gG	10 A TDz, 16 A Dz
• Miniature circuit-breaker, with G characteristic acc. to DIN VDE 0641	10 A
<b>Mechanical endurance</b>	
• Pushbutton units and contact blocks	$10 \times 10^6$ operating cycles
• Actuators, rotary or maintained contact	$3 \times 10^5$ operating cycles
• Illuminated pushbuttons	$3 \times 10^6$ operating cycles
<b>Electrical endurance</b>	
with AC-15 duty with 3TF3, 3TF40 to 3TF43 contactors	$10 \times 10^6$ operating cycles
<b>Climatic stress</b>	Climate-proof; suitable for use on board ship
<b>Ambient temperature</b>	
• using LEDs or for non-illuminated devices	-25 to +70 °C
• using illuminated devices with incandescent lamps	-25 to +60 °C
<b>Degree of protection</b> acc. to IEC 60 529 (DIN VDE 0470)	
• Connection of contact blocks and lampholders behind the front panel	IP 00
• Switchrooms of the contact blocks behind the front panel	IP 40
• Actuators and indicators	IP 65
• Actuator and indicators with protective cap	IP 67
<b>Lamps</b>	Wedge-Base W2 x 4.6 d: 6, 12, 24, 30, 48, 60 V; max. 1 W
<b>Connections</b>	
Clamp-type terminal with tab connectors for push-on ferrules to IEC 60 760	Tab connector 2 x 2.8/0.8 mm
<b>Protective measures</b>	Safety requirements are met automatically when the actuators and lens assemblies are mounted <u>on metal front plates</u> and housings. When mounted in insulated enclosures, the "protective insulation" safety requirements are met.
<b>Safety from finger touch</b> to DIN VDE 0106 Part 100 and VBG 4	With voltages > AC 50 V or DC 120 V insulating sleeves must be fitted to the unassigned tab connections.
<b>Shock resistance</b> according to IEC 60 068, Part 2-27	
• Shock amplitude	≤ 50 g
• Shock duration	11 ms
• Shock form	Half-sine

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### 3SB22 complete units

#### Selection and ordering data

	Version	Colour of actuator	Contact blocks	DT	Order No.	Price	PG	Weight approx.	Pack		
	Version			▶	Preferred type	1 unit		kg	Unit		
Pushbutton units and illuminated pushbutton units with flat button   <b>Nsd0001g</b>	<b>Pushbutton units with flat button</b>	black	1 NO	▶	<b>3SB22 02-0AB01</b>		102	0.015	1		
		black	1 NC	B	<b>3SB22 03-0AB01</b>		102				
		red	1 NC	▶	<b>3SB22 03-0AC01</b>		102				
		yellow	1 NO	B	<b>3SB22 02-0AD01</b>		102				
		green	1 NO	▶	<b>3SB22 02-0AE01</b>		102				
		blue	1 NO	B	<b>3SB22 02-0AF01</b>		102				
		white	1 NO	▶	<b>3SB22 02-0AG01</b>		102				
		clear <sup>1)</sup>	1 NO	B	<b>3SB22 02-0AH01</b>		102				
		<b>Illuminated pushbutton units with flat button</b>	with lamp holder W2 × 4.6 d <sup>2)</sup>	red	1 NC	▶	<b>3SB22 07-0AC01</b>		102	0.017	1
				yellow <sup>1)</sup>	1 NO	B	<b>3SB22 06-0AD01</b>		102		
				green	1 NO	▶	<b>3SB22 06-0AE01</b>		102		
				blue	1 NO	B	<b>3SB22 06-0AF01</b>		102		
				clear <sup>1)</sup>	1 NO	▶	<b>3SB22 06-0AH01</b>		102	0.022	1
			Operational voltage 24 V AC/DC with lamp holder W2 × 4.6 d and incandescent lamp 24 V	red	1 NC	▶	<b>3SB22 27-0AC01</b>		102	0.018	1
yellow <sup>1)</sup>	1 NO			B	<b>3SB22 26-0AD01</b>		102				
green	1 NO			▶	<b>3SB22 26-0AE01</b>		102				
blue	1 NO			B	<b>3SB22 26-0AF01</b>		102				
clear <sup>1)</sup>	1 NO			▶	<b>3SB22 26-0AH01</b>		102				
Pushbutton units and illuminated pushbutton units with raised button   <b>Nsd0002g</b>	<b>Pushbutton units with raised button</b>	black	1 NO	B	<b>3SB22 02-0LB01</b>		102	0.015	1		
		red	1 NC	B	<b>3SB22 03-0LC01</b>		102				
		yellow	1 NO	B	<b>3SB22 02-0LD01</b>		102				
		blue	1 NO	B	<b>3SB22 02-0LF01</b>		102				
		clear <sup>1)</sup>	1 NO	B	<b>3SB22 02-0LH01</b>		102				
		<b>Illuminated pushbutton units with raised button</b>	with lamp holder W2 × 4.6 d <sup>2)</sup>	red	1 NC	B	<b>3SB22 07-0LC01</b>		102	0.017	1
				yellow <sup>1)</sup>	1 NO	B	<b>3SB22 06-0LD01</b>		102		
				green	1 NO	B	<b>3SB22 06-0LE01</b>		102		
				blue	1 NO	B	<b>3SB22 06-0LF01</b>		102		
				clear <sup>1)</sup>	1 NO	B	<b>3SB22 06-0LH01</b>		102		
			Operational voltage 24 V AC/DC with lamp holder W2 × 4.6 d and incandescent lamp 24 V	red	1 NC	B	<b>3SB22 27-0LC01</b>		102	0.018	1
				yellow <sup>1)</sup>	1 NO	B	<b>3SB22 26-0LD01</b>		102		
				green	1 NO	B	<b>3SB22 26-0LE01</b>		102		
				blue	1 NO	B	<b>3SB22 26-0LF01</b>		102		
clear <sup>1)</sup>	1 NO			B	<b>3SB22 26-0LH01</b>		102				












1) Inscription by inserting a label is possible.  
2) Wedge-Base lamps see page 9/15.

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

3SB22 complete units

### Selection and ordering data

	Version	Type	Colour of actuator/key removable in position	Contact blocks	DT	Order No.	Price	PG	Weight approx.	Pack	
	Version			DT	Preferred type	1 unit	kg	Unit			
 <p><b>Rotary button unit, 2 switching positions, switching sequence O-I</b></p> <p>latching</p>  <p>nss 00439g</p>			black	1 NO	▶	<b>3SB22 02-2AB01</b>	102	0.017	1		
			red	1 NO	B	<b>3SB22 02-2AC01</b>	102				
			green	1 NO	B	<b>3SB22 02-2AE01</b>	102				
			white	1 NO	B	<b>3SB22 02-2AG01</b>	102				
	<p><b>Rotary button unit, 3 switching positions, switching sequence I-O-II</b></p> <p>latching</p>  <p>nss 00448g</p>			black	1 NO, 1 NO	▶	<b>3SB22 10-2DB01</b>	102	0.017	1	
				red	1 NO, 1 NO	B	<b>3SB22 10-2DC01</b>	102			
			green	1 NO, 1 NO	B	<b>3SB22 10-2DE01</b>	102				
			white	1 NO, 1 NO	B	<b>3SB22 10-2DG01</b>	102				
<p>non-latching</p>  <p>nss 00445g</p>				black	1 NO, 1 NO	▶	<b>3SB22 10-2EB01</b>	102	0.022	1	
				red	1 NO, 1 NO	B	<b>3SB22 10-2EC01</b>	102			
			green	1 NO, 1 NO	B	<b>3SB22 10-2EE01</b>	102				
			white	1 NO, 1 NO	B	<b>3SB22 10-2EG01</b>	102				
 <p><b>Key-operated switch units, 2 positions, switching sequence O-I</b></p> <p>latching</p>  <p>nss 00439g</p>		CES	Lock No. SB2	O	1 NO	▶	<b>3SB22 02-4LA01</b>	102	0.03	1	
				O+I	1 NO	B	<b>3SB22 02-4LB01</b>	102			
	<p><b>Key-operated switch units, 3 positions, switching sequence I-O-II</b></p> <p>latching</p>  <p>nss 00448g</p>		CES	Lock No. SB2	O	1 NO, 1 NO	B	<b>3SB22 10-4PA01</b>	102	0.035	1
					I + O + II	1 NO, 1 NO	B	<b>3SB22 10-4PB01</b>	102		
		<p>non-latching</p>  <p>nss 00445g</p>			O	1 NO, 1 NO	B	<b>3SB22 10-4QA01</b>	102	0.035	1
 <p><b>EMERGENCY-STOP mushroom pushbutton unit acc. to EN 418, latching</b></p> <p>with yellow backing plate with inscription "NOT-AUS" (in German)</p>  <p>bg974033</p>			red	1 NC	▶	<b>3SB22 03-1AC01</b>	102	0.043	1		
 <p><b>Indicator light units</b></p> <p>with lampholder W2 × 4.6 d<sup>1)</sup></p> <p>Operational voltage 24 V AC/DC with lamp holder W2 × 4.6 d and incandescent lamp 24 V</p>			red		▶	<b>3SB22 04-6BC06</b>	102	0.012	1		
			yellow		B	<b>3SB22 04-6BD06</b>	102				
			green		▶	<b>3SB22 04-6BE06</b>	102				
			white		▶	<b>3SB22 04-6BG06</b>	102				
			clear		B	<b>3SB22 04-6BH06</b>	102				
			red		▶	<b>3SB22 24-6BC06</b>	102	0.013	1		
			yellow		B	<b>3SB22 24-6BD06</b>	102				
			green		▶	<b>3SB22 24-6BE06</b>	102				
			white		▶	<b>3SB22 24-6BG06</b>	102				
			clear		B	<b>3SB22 24-6BH06</b>	102				

▶ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.






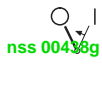
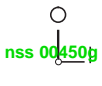



1) Wedge-Base lamps see page 9/15.

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### 3SB20 pushbuttons and rotary buttons

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Pack	
			Preferred type	1 unit		kg	Unit	
Pushbutton units and illuminated pushbutton units with flat button  <b>Nsd0007g</b>	<b>Pushbuttons with flat button</b>	black	▶ <b>3SB20 00-0AB01</b>	102	102	0.005	10	
		red	▶ <b>3SB20 00-0AC01</b>					
		yellow	B <b>3SB20 00-0AD01</b>					
		green	▶ <b>3SB20 00-0AE01</b>					
		blue	B <b>3SB20 00-0AF01</b>					
		white clear <sup>1)</sup>	▶ <b>3SB20 00-0AG01</b> B <b>3SB20 00-0AH01</b>					
	<b>Illuminated pushbuttons with flat button</b>	red	▶ <b>3SB20 01-0AC01</b>	102	102	0.005	10	
		yellow <sup>1)</sup>	B <b>3SB20 01-0AD01</b>					
		green	▶ <b>3SB20 01-0AE01</b>					
		blue	B <b>3SB20 01-0AF01</b>					
		white clear <sup>1)</sup>	▶ <b>3SB20 00-0AG01</b> B <b>3SB20 00-0AH01</b>					
	Pushbutton units and illuminated pushbutton units with raised button  <b>Nsd0008g</b>	<b>Pushbuttons with raised button</b>	black	B <b>3SB20 00-0LB01</b>	102	102	0.006	10
			red	B <b>3SB20 00-0LC01</b>				
yellow			B <b>3SB20 00-0LD01</b>					
blue			B <b>3SB20 00-0LF01</b>					
white clear <sup>1)</sup>			B <b>3SB20 00-0LG01</b> B <b>3SB20 00-0LH01</b>					
<b>Illuminated pushbuttons with raised button</b>		red	B <b>3SB20 01-0LC01</b>	102	102	0.006	10	
		yellow <sup>1)</sup>	B <b>3SB20 01-0LD01</b>					
		green	B <b>3SB20 01-0LE01</b>					
		blue	B <b>3SB20 01-0LF01</b>					
		white clear <sup>1)</sup>	B <b>3SB20 00-0LH01</b>					
EMERGENCY-STOP mushroom pushbutton <b>Nsd0009g</b>		<b>EMERGENCY-STOP mushroom pushbutton acc. to EN 418, latching<sup>2)</sup></b> latch automatically when depressed; unlatch when turned to the left	red	▶ <b>3SB20 00-1AC01</b>	102	102	0.013	5
			 <b>bg974033</b>					
<b>Rotary buttons with 2 switching positions</b>								
Rotary button  <b>Nsd0010g</b>	 <b>nss 00439g</b>	black	▶ <b>3SB20 00-2AB01</b>	102	102	0.007	10	
		red	▶ <b>3SB20 00-2AC01</b>					
		green	B <b>3SB20 00-2AE01</b>					
		white	B <b>3SB20 00-2AG01</b>					
	 <b>nss 00438g</b>	black	▶ <b>3SB20 00-2BB01</b>	102	102	0.007	10	
		red	▶ <b>3SB20 00-2BC01</b>					
		green	B <b>3SB20 00-2BE01</b>					
	 <b>nss 00450g</b>	black	B <b>3SB20 00-2HB01</b>	102	102	0.007	10	
		red	B <b>3SB20 00-2HC01</b>					
		green	B <b>3SB20 00-2HE01</b>					
		white	B <b>3SB20 00-2HG01</b>					
<b>Rotary buttons with 3 switching positions</b>								
<b>nss 00448g</b>		black	▶ <b>3SB20 00-2DB01</b>	102	102	0.007	10	
		red	B <b>3SB20 00-2DC01</b>					
		green	B <b>3SB20 00-2DE01</b>					
		white	B <b>3SB20 00-2DG01</b>					
<b>nss 00445g</b>		black	▶ <b>3SB20 00-2EB01</b>	102	102	0.007	10	
		red	B <b>3SB20 00-2EC01</b>					
		green	B <b>3SB20 00-2EE01</b>					
		white	B <b>3SB20 00-2EG01</b>					
<b>nss 00452g</b>		black	B <b>3SB20 00-2JB01</b>	102	102	0.007	10	

1) Inscription by inserting a label is possible.






2) The mushroom pushbutton unit cannot be combined with 3SB29 00-0... backing plate and 3SB29 02-0AA single frame!

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm


### 3SB20 key-operated switches

#### Selection and ordering data

Version	Type	Lock No.	Key remov- able in position	DT	Order No.	Price	PG	Weight approx.	Pack		
					▶ Preferred type	1 unit		kg	Unit		
CES key-operated switch  Nsd0011g	<b>Key-operated switches with 2 keys and 2 switching positions</b>										
		Switching sequence O-I, latching, 62° operating angle	CES	SB 2	O+I	B	<b>3SB20 00-4LB01</b>		102	0.02	5
					O	▶	<b>3SB20 00-4LA01</b>		102		
	<b>nss 00439g</b>										
		Switching sequence O-I, non-latching (return from the right), 50° operating angle	CES	SB 2	O	▶	<b>3SB20 00-4MA01</b>		102	0.02	5
<b>nss 00438g</b>											
<b>Key-operated switches with 2 keys and 3 switching positions</b>											
		Switching sequence I + O + II, latching, operating angle 2 x 62°	CES	SB 2	I+O+II	B	<b>3SB20 00-4PB01</b>		102	0.02	5
				O	B	<b>3SB20 00-4PA01</b>		102			
<b>00448g</b>											
		Switching sequence I + O + II, non-latching (return from the right and left), operating angle 2 x 50°	CES	SB 2	O	B	<b>3SB20 00-4QA01</b>		102	0.02	5
<b>00445g</b>											

### 3SB20 indicator lights

#### Selection and ordering data

Version	Colour of screw lens	DT	Order No.	Price	PG	Weight approx.	Pack		
			▶ Preferred type	1 unit		kg	Unit		
Indicator light  Nsd0012g	<b>Indicator lights with concentric rings</b> (Inscription with insert cap not possible)		red	▶	<b>3SB20 01-6BC06</b>		102	0.005	10
		yellow	B	<b>3SB20 01-6BD06</b>		102			
		green	▶	<b>3SB20 01-6BE06</b>		102			
		blue	B	<b>3SB20 01-6BF06</b>		102			
		white	▶	<b>3SB20 01-6BG06</b>		102			
		clear	B	<b>3SB20 01-6BH06</b>		102			
	<b>Indicator lights suitable for inscription with insert caps<sup>1)</sup></b>		red	B	<b>3SB20 01-6CC06</b>		102	0.005	10
		yellow	B	<b>3SB20 01-6CD06</b>		102			
		green	B	<b>3SB20 01-6CE06</b>		102			
		blue	B	<b>3SB20 01-6CF06</b>		102			
	clear	B	<b>3SB20 01-6CH06</b>		102				




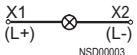

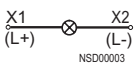
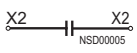



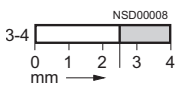
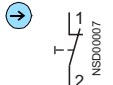
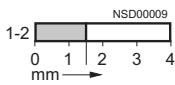
1) Insert caps see pages 9/11 to 9/12.

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### Holders, lampholders and contact blocks with tab connection

#### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
		 contact closed  contact open		Preferred type	1 unit		kg	Unit
Holders are used as fixing part for actuators and contact blocks								
Holder for 2 contact blocks	<b>Holder for 2 contact blocks</b>	Inscription with sequence number 1–2		<b>3SB29 08–0AA</b>		102	0.005	5
	<b>Nsd0013g</b>							
Lampholders with holders and tab connectors according to IEC 60 760 are also used as fixing parts for actuators and contact blocks								
Lampholder	<b>Lampholder</b> W2 × 4.6 d	 NSD00003		<b>3SB23 04–2A</b>		102	0.006	5
	<b>Nsd0014g</b>							
Lampholder	<b>Lampholder</b> W2 × 4.6 d	 NSD00003		B <b>3SB23 04–2F</b>		102	0.007	5
	<ul style="list-style-type: none"> <li>with 6 V filament bulb</li> <li>with 24 V filament bulb</li> </ul>			B <b>3SB23 04–2H</b>		102		
Voltage reducer	<b>Voltage reducer</b> <sup>1)</sup> for connecting a 3SB29 08–1AE 48 V lamp to 230 V AC	 NSD00005		B <b>3SB24 04–3D</b>		102	0.02	20
	<b>Nsd0015g</b>							
Contact blocks with tab connectors 2 × 2.8–0.8 mm according to IEC 60 760 as components of holder and lampholder								
Contact block	<b>Contact blocks with one contact</b> <sup>2)</sup>							
	<b>Nsd0016g</b>							
	1 NO	 NSD00006		 NSD00008		102	0.005	20
	1 NC	 NSD00007		 NSD00009		102	0.005	20

➡ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) Use support point terminal according to DIN VDE 0660, Part 500

2) Push-on ferrule and insulation sleeve see page 9/15.

# Pushbutton Units and Indicator Lights 3SB2, Mounting Diameter 16 mm

For PCB mounting

## Overview

For use on PCBs, 3SB2 contact blocks and lampholders with solder pins are available.

## Specifications

DIN VDE 0660 and IEC 60 947-5-1.

## Design

The control point consists of the actuator, e.g. 3SB2 plain pushbutton, illuminated pushbutton or indicator light (see page 9/6), which is mounted in the front plate, and a contact block and a lampholder which are soldered to the PCB. For this purpose, the contact blocks and lampholders are fitted with  $0.8 \times 0.8$  mm solder pins of length 3.5 mm.

Only 16 mm diameter actuators can be used.

## Mounting and fixing

The mounting dimensions conform to EN 50 007 (see drawings adjacent)

The actuators are mounted in the same way as 3SB2 front-plate mounting devices (see page 9/2).

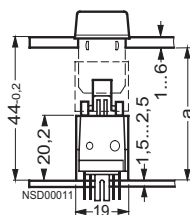
The contact blocks and lampholders plug into printed-circuit board by means of their soldering pins and can be flow-soldered.

After soldering, the devices must be flush with the board and perpendicular to it.

The printed-circuit board must be supported on spacers so that it cannot sag or bend more than 0.1 mm.

## Mounting dimensions

**Illuminated pushbutton unit** with contact block and lampholder with solder pins



Length of the spacer  $a = 44^{-0.2}$  minus front panel thickness.

Length  $a$  is reduced by 0.8 mm when backing plates are used

To avoid bending the PCB when the pushbutton units are operated, sufficient spacers must be provided spaced as shown in the table below:

PCB thickness	Max. distance between spacers
---------------	-------------------------------

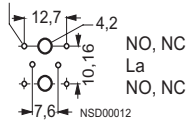
1.5 mm	80 mm
2.5 mm	150 mm

When using EMERGENCY-STOP actuators always 50 mm

(The values apply to PCBs made from epoxy resin laminate with glass fabric base)

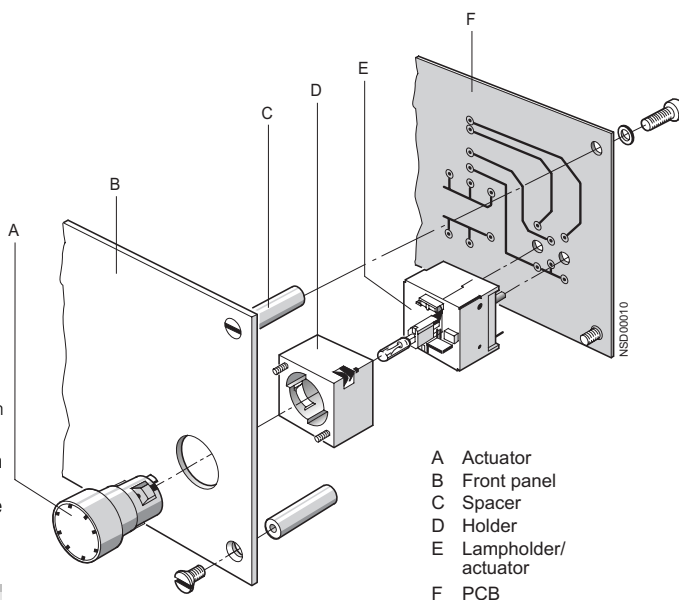
## Solder pin spacing

Solder terminal  $\varnothing 1.3^{+0.1}$



## Technical data

see page 9/3.








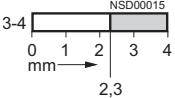


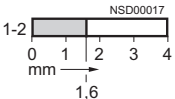


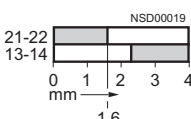

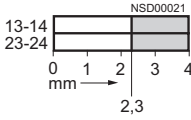


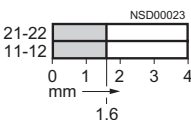

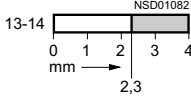


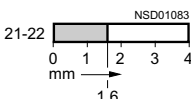


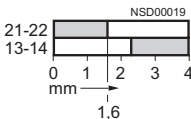

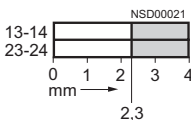


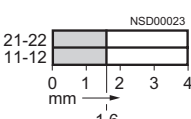
- A Actuator
- B Front panel
- C Spacer
- D Holder
- E Lampholder/actuator
- F PCB

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

Holders, lampholders and contact blocks with solder pins

### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
		 contact closed  contact open			1 unit		kg	Unit
Holder	<b>Holder</b> For fixing the actuators in the front panel with solder pins	-	B	<b>3SB29 08-0AB</b>		102	0.006	5
	<b>Lampholder</b> Wedge base W2 x 4.6 d	(L+) X1  (L-) X2	B	<b>3SB24 55-2A</b>		102	0.006	5
	<b>Contact blocks</b>							
1 NO			B	<b>3SB24 55-0B</b>		102	0.006	5
1 NC				B	<b>3SB24 55-0C</b>		102	0.006
1 NO + 1 NC				B	<b>3SB24 55-0J</b>		102	0.007
1 NO + 1 NO				B	<b>3SB24 55-0E</b>		102	0.007
1 NC + 1 NC				B	<b>3SB24 55-0F</b>		102	0.007
	<b>Contact blocks and lampholders, wedge base W2 x 4.6 d</b>							
1 NO			B	<b>3SB24 55-1B</b>		102	0.008	5
1 NC				B	<b>3SB24 55-1C</b>		102	0.008
1 NO + 1 NC				B	<b>3SB24 55-1J</b>		102	0.008
1 NO + 1 NO				B	<b>3SB24 55-1E</b>		102	0.008
1 NC + 1 NC				B	<b>3SB24 55-1F</b>		102	0.008

 Positive opening according to IEC 60 947-5-1, appendix K, and DIN VDE 0660 Part 200.

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

### Design








Clear pushbuttons, illuminated pushbuttons and indicator lights can be fitted with insert labels and caps for identification purposes.

These labels and caps are made of a milky-transparent moulded plastic with black lettering and can be fitted in any 90° position.

### Inscription

The inscription (and the custom inscription) has capital initial letters. The symbols (incl. those not listed here) are in accordance with DIN Report 4.

### Selection and ordering data

Inscription	Consecutive No. acc. to DIN Report 4	DT	Insert labels for flat pushbuttons and illuminated pushbuttons		Insert caps for raised pushbuttons and illuminated pushbuttons		Insert caps for light indicators		PG	Pack
			Order No.	Price 1 unit	Order No.	Price 1 unit	Order No.	Price 1 unit		
Without inscription		B	<b>3SB29 01-4AA</b>		<b>3SB29 01-5AA</b>		<b>3SB29 01-7AA</b>		102	1
Ein		B	<b>3SB29 01-4AB</b>		<b>3SB29 01-5AB</b>		–		102	
Aus		B	<b>3SB29 01-4AC</b>		<b>3SB29 01-5AC</b>		–		102	
Auf		B	<b>3SB29 01-4AD</b>		<b>3SB29 01-5AD</b>		–		102	
Ab		B	<b>3SB29 01-4AE</b>		–		–		102	
Vor		B	<b>3SB29 01-4AF</b>		<b>3SB29 01-5AF</b>		–		102	
Zurück		B	<b>3SB29 01-4AG</b>		<b>3SB29 01-5AG</b>		–		102	
Rechts		B	<b>3SB29 01-4AH</b>		–		–		102	
Links		B	<b>3SB29 01-4AJ</b>		–		–		102	
Halt		B	<b>3SB29 01-4AK</b>		–		–		102	
Zu		B	<b>3SB29 01-4AL</b>		<b>3SB29 01-5AL</b>		–		102	
Langsam		B	<b>3SB29 01-4AN</b>		–		–		102	
Störung		B	<b>3SB29 01-4AQ</b>		–		<b>3SB29 01-7AQ</b>		102	
On		B	<b>3SB29 01-4EB</b>		–		–		102	
Start		B	<b>3SB29 01-4EK</b>		–		–		102	
Stop		B	<b>3SB29 01-4EL</b>		–		–		102	
Reset		B	<b>3SB29 01-4EM</b>		–		–		102	
Test		B	<b>3SB29 01-4EN</b>		–		–		102	
0		B	<b>3SB29 01-4RA</b>		<b>3SB29 01-5RA</b>		–		102	1
1		B	<b>3SB29 01-4RB</b>		<b>3SB29 01-5RB</b>		–		102	
2		B	<b>3SB29 01-4RC</b>		<b>3SB29 01-5RC</b>		–		102	
3		B	<b>3SB29 01-4RD</b>		<b>3SB29 01-5RD</b>		–		102	
4		B	<b>3SB29 01-4RE</b>		<b>3SB29 01-5RE</b>		–		102	
5		B	<b>3SB29 01-4RF</b>		<b>3SB29 01-5RF</b>		–		102	
6		B	<b>3SB29 01-4RG</b>		<b>3SB29 01-5RG</b>		–		102	
7		B	<b>3SB29 01-4RH</b>		<b>3SB29 01-5RH</b>		–		102	
8		B	<b>3SB29 01-4RJ</b>		<b>3SB29 01-5RJ</b>		–		102	
9		B	<b>3SB29 01-4RK</b>		<b>3SB29 01-5RK</b>		–		102	
<b>Symbols</b>									102	
	Off	15	B	<b>3SB29 01-4MB</b>		<b>3SB29 01-5MB</b>		–	102	1
	On	16	B	<b>3SB29 01-4MC</b>		<b>3SB29 01-5MC</b>		–	102	
		–	B	<b>3SB29 01-4MD</b>		–		–	102	
<b>Equipment symbols</b>										
	Electric motor	42	B	<b>3SB29 01-4PA</b>		–		–	102	1
	Horn	155	B	<b>3SB29 01-4PB</b>		–		–	102	
	Pump	695	B	<b>3SB29 01-4PD</b>		–		<b>3SB29 01-7PD</b>	102	
	Coolant pump	713	B	<b>3SB29 01-4PE</b>		–		–	102	

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

Insert labels and insert caps

### Selection and ordering data

Symbol	Significance	Consecutive No. acc. to DIN Report 4	DT	Insert labels for flat pushbuttons and illuminated pushbuttons		Insert caps for raised pushbuttons and illuminated pushbuttons		Insert caps for light indicators		PG	Pack
				Order No.	Price 1 unit	Order No.	Price 1 unit	Order No.	Price 1 unit		
<b>Motion symbols</b>											
nss 00418g		Motion in direction of arrow	28	B	3SB29 01-4NA		3SB29 01-5NA			102	1
00419		Motion in direction of arrow	28 b	B	3SB29 01-4NB		3SB29 01-5NB			102	
00430		Clockwise rotation	100	B	3SB29 01-4NC					102	
00429		Anticlockwise rotation	114	B	3SB29 01-4ND					102	
00424		Fast motion	1919	B	3SB29 01-4NE					102	
00427		Increase, plus	40	B	3SB29 01-4NG		3SB29 01-5NG			102	
00409		Decrease, minus	41	B	3SB29 01-4MC		3SB29 01-5MC			102	
<b>Control symbols</b>											
00425		Clamp	259	B	3SB29 01-4QB		3SB29 01-5QB			102	1
00407		Release	169	B	3SB29 01-4QC		3SB29 01-5QC		3SB29 01-7QC	102	
00401		Brake off	266	B	3SB29 01-4QE					102	
00413		Key-operated switch	46	B	3SB29 01-4QF					102	
00405		Unlock	45	B	3SB29 01-4QG		3SB29 01-5QG			102	
00421		On/Off, momentary contact	19	B	3SB29 01-4QJ					102	
00423		Manual operation	35	B	3SB29 01-4QK				3SB29 01-7QK	102	
00415		Automatic sequence	267	B	3SB29 01-4QL		3SB29 01-5QL			102	
		<b>Further symbols acc. to DIN Technical Report 4</b> Append "K3Y" to the order code and add the consecutive number to DIN Report 4 (special characters on request)		C	3SB29 01-4AZ K3Y		3SB29 01-5AZ K3Y		3SB29 01-7AZ K3Y	102	1
		<b>Labels and caps with inscriptions and symbols not listed above:</b> One line with a maximum of 6 letters is possible, with 3 mm letter height.		C	3SB29 01-4AZ K0Y, K1Y, K2Y or K9Y		3SB29 01-5AZ K0Y, K1Y, K2Y or K9Y		3SB29 01-7AZ K0Y, K1Y, K2Y or K9Y	102	1

Supplement the Order No. with the following Order Code:

- Capital initial letters
- Capital letters
- Lower-case letters
- Acc. to the order

**K0Y**  
**K1Y**  
**K2Y**  
**K9Y**

When ordering using the order code, specify the required inscription in plain text. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### Inscription with backing plates

#### Design

The backing plates consist of a black moulded plastic holder and an adhesive inscription plate (silver with black).

#### Inscription

The inscription (and the special inscription) is lower-case with initial capitals.

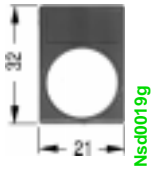
In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

Note insert dimensions!

#### Selection and ordering data

Version	DT	Order No.	Price	PG	Pack
		▶ Preferred type	1 unit		Unit
<b>Backing plate for inscription plate</b>	B	<b>3SB29 02-0AB</b>		102	1
<b>Adhesive inscription plate<sup>1)</sup> 9.5 × 18.5 mm</b>					
<b>Inscription</b>					
blank	▶	<b>3SB29 01-2AA</b>		102	1
Ein	B	<b>3SB29 01-2AB</b>		102	
Aus	B	<b>3SB29 01-2AC</b>		102	
Auf	B	<b>3SB29 01-2AD</b>		102	
Zu	B	<b>3SB29 01-2AL</b>		102	
Vor	B	<b>3SB29 01-2AF</b>		102	
Zurück	B	<b>3SB29 01-2AG</b>		102	
Schnell	B	<b>3SB29 01-2AM</b>		102	
Langsam	B	<b>3SB29 01-2AN</b>		102	
Betrieb	B	<b>3SB29 01-2AP</b>		102	
Störung	B	<b>3SB29 01-2AQ</b>		102	
Einrichten	B	<b>3SB29 01-2AR</b>		102	
On	B	<b>3SB29 01-2EB</b>		102	1
Off	B	<b>3SB29 01-2EC</b>		102	
Start	B	<b>3SB29 01-2EL</b>		102	
Reset	B	<b>3SB29 01-2EM</b>		102	
Fault	B	<b>3SB29 01-2EW</b>		102	
Hand Auto	B	<b>3SB29 01-2BA</b>		102	1
Hand 0 Auto	B	<b>3SB29 01-2BE</b>		102	
Man 0 Auto	B	<b>3SB29 01-2ET</b>		102	
<b>Symbols</b>					
O	B	<b>3SB29 01-2MB</b>		102	1
I	B	<b>3SB29 01-2MC</b>		102	
O I	B	<b>3SB29 01-2MF</b>		102	
→	B	<b>3SB29 01-2NA</b>		102	

Inscription plate



Snap-on



#### Inscription plates with inscriptions and symbols other than those shown

2 lines with 11 letters each are possible  
Letter heights: 4 mm (1 line)  
3 mm (2 lines)

Supplement the Order No. with the following Order Codes:

- Capital initial letters **K0Y**
- Capital letters **K1Y**
- Lower-case letters **K2Y**
- Other symbols with No. **K3Y**
- According to order form **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code.

In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

For further inscriptions, specify the consecutive No. according to DIN Report 4.

1) Must not be used with the 3SB2...-1AC01 EMERGENCY STOP mushroom pushbutton unit.

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### Square design

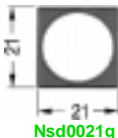
#### Design

The 3SB2 pushbuttons and indicator lights can be constructed in square design using square

frames of black moulded plastic in combination with the actuators and lens assemblies.






Note insert dimensions!

#### Selection and ordering data

Version	DT	Order No.	Price	PG	Pack
	▶	Preferred type	1 unit		Unit
 Nsd0021g	▶	<b>3SB29 02-0AA</b>		102	1

### Accessories and spare parts

#### Selection and ordering data

Version	Colour	DT	Order No.	Price	PG	Pack
		▶	Preferred type	1 unit		Unit
 Nsd0022g	<b>Buttons, flat</b>					
	• for pushbutton units	black red yellow	B B B	<b>3SB29 10-0AB</b> <b>3SB29 10-0AC</b> <b>3SB29 10-0AD</b>	102 102 102	1
		green blue white clear	B B B B	<b>3SB29 10-0AE</b> <b>3SB29 10-0AF</b> <b>3SB29 10-0AG</b> <b>3SB29 10-0AH</b>	102 102 102 102	
	• for illuminated pushbutton units	red yellow green blue white clear	B B B B B B	<b>3SB29 10-0CC</b> <b>3SB29 10-0CD</b> <b>3SB29 10-0CE</b> <b>3SB29 10-0CF</b> <b>3SB29 10-0AG</b> <b>3SB29 10-0AH</b>	102 102 102 102 102 102	1
 Nsd0023g	<b>Buttons, raised</b>					
	• for pushbutton units	black red yellow clear	B B B B	<b>3SB29 10-0BB</b> <b>3SB29 10-0BC</b> <b>3SB29 10-0BD</b> <b>3SB29 10-0BH</b>	102 102 102 102	1
	• for illuminated pushbutton units	red yellow clear	B B B	<b>3SB29 10-0DC</b> <b>3SB29 10-0DD</b> <b>3SB29 10-0BH</b>	102 102 102	1
 Nsd0024g	<b>Screw lenses</b>					
	• with concentric rings	red yellow green blue white clear	▶ ▶ ▶ B ▶ B	<b>3SB29 10-1AC</b> <b>3SB29 10-1AD</b> <b>3SB29 10-1AE</b> <b>3SB29 10-1AF</b> <b>3SB29 10-1AG</b> <b>3SB29 10-1AH</b>	102 102 102 102 102 102	1
	• for labelling using insert cap	red yellow green blue clear	B B B B B	<b>3SB29 10-1BC</b> <b>3SB29 10-1BD</b> <b>3SB29 10-1BE</b> <b>3SB29 10-1BF</b> <b>3SB29 10-1BH</b>	102 102 102 102 102	1
 Nsd0025g	<b>Backing plate, Ø 50 mm,</b> as contrast surface, self-adhesive	yellow				
	• blank		▶	<b>3SB29 08-2AF</b>	102	1
	• with inscription "NOT-AUS" (in German)		▶	<b>3SB29 08-2AG</b>	102	1
 Nsd0026g	<b>Key</b> for CES key-operated switch, lock No. SB2		B	<b>3SB29 08-2AJ</b>	102	1

1) Must not be used with the 3SB2...-1AC01 EMERGENCY STOP mushroom pushbutton!

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### Accessories and spare parts

#### Selection and ordering data

Version	Colour	Lamp voltage	DT	Order No.	Price	PG	Pack
			▶	Preferred type	1 unit		Unit
 Nsd0027g			B	<b>3SB29 08-3AB</b>		102	1
<b>Protective cap, clear</b> Silicone, for pushbutton units with flat and raised pushbutton							
 Nsd0028g	<b>Incandescent lamps</b>						
	Wedge base W2 x 4.6 d, 1.0 W						
		6 V	B	<b>3SB29 08-1AA</b>		102	10
		12 V	B	<b>3SB29 08-1AB</b>		102	
		24 V	▶	<b>3SB29 08-1AC</b>		102	
		30 V	B	<b>3SB29 08-1AD</b>		102	
	48 V	B	<b>3SB29 08-1AE</b>		102		
	60 V	B	<b>3SB29 08-1AF</b>		102		
<b>LEDs, super-bright</b>							
Wedge base W2 x 4.6 d							
	red	DC 24 V	B	<b>3SB39 01-1SB</b>		102	10
	yellow		B	<b>3SB39 01-1RB</b>		102	
	green		B	<b>3SB39 01-1TB</b>		102	
	white		B	<b>3SB39 01-1UB</b>		102	
	blue		B	<b>3SB29 08-1BD</b>		102	
 Nsd0029g			▶	<b>3SB29 08-2AB</b>		102	1
<b>Lamp extractor</b> for lamps with base W2 x 4.6 d							
 Nsd0030g			▶	<b>3SB29 08-2AC</b>		102	1
<b>Mounting tool</b> for pushbuttons and screw lenses							
 Nsd0031g			▶	<b>3SB29 08-2AA</b>		102	1
<b>Dismounting tool</b> for holder and lamp holder with holder							
 Nsd0032g			B	<b>3SB29 08-3AA</b>		102	50
<b>Blanking plug</b> black plastic (degree of protection IP 65)							
 Nsd0033g			▶	<b>3SB29 08-8AA</b>		102	250
<b>Push-on ferrule</b> for tab connectors 2.8 x 0.8 mm Cross-section 0.5 to 1.5 mm <sup>2</sup>							
 Nsd0034g			▶	<b>3SB29 08-8AB</b>		102	250
<b>Insulation sleeve</b> for tab connectors, connection from the front							
<b>KRBC 0560 compression tool</b> for both tab connectors				Lapp GmbH Kabelwerk Gewerbestraße D-70565 Stuttgart Tel.: +49 7 11/78 38-02 Fax: +49 7 11/78 38-401 (Order No. 61790950)		1	
 Nsd0035g			▶	<b>3SB29 08-8AD</b>		102	1
<b>Complete connector</b> <sup>1)</sup> for connecting contact blocks and lamp holders (up to 10 connections). Provides safety from fingertouch acc. to DIN VDE 0106 Part 100 and VBG 4.							
 Nsd0036g			B	<b>3SB29 08-8AE</b>		102	1
<b>Push-on ferrule</b> with locating spring for locating in com- plete connector							

1) Required push-on ferrules must be ordered separately.

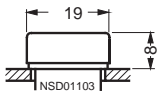
# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

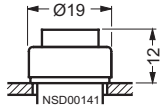
### Dimension drawings

#### Actuators

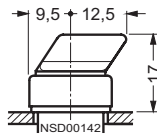
**Pushbutton or illuminated pushbutton with flat button**



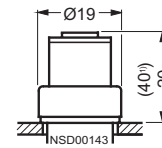
**Pushbutton or illuminated pushbutton with raised button**



**Selector switch**

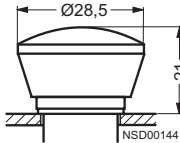


**CES key-operated switch**

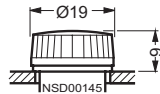


\* with key

**EMERGENCY-STOP mushroom pushbutton**

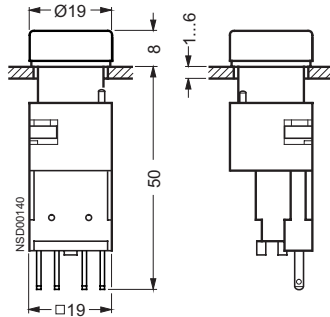


**Indicator light**



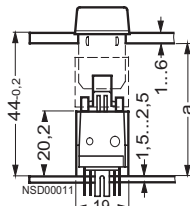
#### Contact blocks with push-on connection

**Pushbutton and contact block with holder for frontplate mounting**



#### Contact blocks with soldering pins for use on printed circuit boards

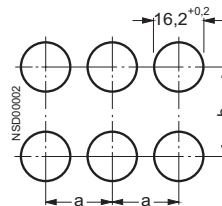
**Illuminated pushbutton unit with contact block and lamp-holder with solder pins**



Length **a** of spacers:  $a = 44^{-0.2}$  minus front plate thickness.  
When using backing plates, the length **a** is reduced by 0.8 mm.  
To avoid bending of the PCB when the actuator is operated, sufficient spacers must be provided spaced as shown in the table below:

Maximum PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP actuators	generally 50 mm

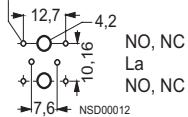
#### Mounting dimensions



Minimum clearance	a	b
Round design	19	19
Square design without inscription plate	21	21
Round and square designs with 21 inscription plates		32
For 2 selector switches and 3 switching positions, maintained contact, side by side	21	21

#### Solder pin spacing

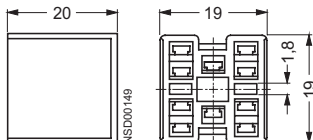
Solder terminal  $\varnothing 1.3^{+0.1}$



(These details are based on epoxy resin glass fibre mat.)

#### Accessories

**Complete connector**



### Introduction

#### Overview

SIGNUM is a range of plastic and metal control devices for frontplate mounting and rear wire connection.

SIGNUM is of modern industrial design with a very flat construction and can be installed rapidly by a single person.

In addition, SIGNUM Metallic is designed for the world market with a high degree of protection according to IP 67 and NEMA 4.

#### Specifications

IEC 60 947-1, EN 60 947-1 (DIN VDE 0660 Part 100), IEC 60 947-5-1, EN 60 947-5-1 (DIN VDE 0660 Part 200)

#### Design

The plastic versions of the SIGNUM devices are

- available in flush, round and square designs, while
- the metal versions are available in the round design.

A combination of membrane keyboards and 3SB3 plastic elements supports the flat appearance. The flat construction makes cleaning easy.

The operating surfaces of the pushbuttons and indicator lights are concave. The lenses of the indicator lights are convex.

#### Inscription

Inscriptions are possible by inscribing directly onto the actuator by means of a laser as well as by using labels, backing plates or the inscription system for SIGNUM.

#### Design

A command point consists of a front-mounted operating element or lens, a holder for mounting, contact block and/or lamp holder, behind the switch panel.

The holder for the round version can be turned and can therefore be used for switch panel depths of 1 to 4 mm or 3 to 6 mm.

The switch panel depth of 1 to 4 mm can be compensated with the holder for the square version.

The normal version can be fitted with two contact blocks.

When three contact blocks or one lampholder and two contact blocks are required, an additional holder must be plugged into the operating element. A holder with pressure pieces is required for operating a middle contact block including selector switches, safety locks or double pushbuttons.

Complete units are offered for the most commonly used applications.

#### Holder

The holder is positioned when delivered, at a switchboard thickness of 1 to 4 mm and is placed in the direction of the arrow on the actuator/indicator, ▲ 1–4 mm ▲ from the back. The fixing screw is located underneath, on the right.

For a switchboard thickness of 3 to 6 mm, the holder is reversed and mounted in the direction of the arrow at ▲ 3–6 mm ▲ and the fixing screw is located on the upper right. In this case, the fixing screw must be rotated anticlockwise to its limit before mounting the holder.

When legend holders, protective boots or similar accessories are used, the maximum permissible panel thickness must be reduced by wall thickness of the accessory.

#### Contact blocks and lampholders

The contact blocks are fitted with a slow-action contact (1 NO contact or 1 NC contact) with double operating contacts. These ensure a high switching reliability even with small voltages and currents of 5 V/1 mA and above. They are suitable for use in electronic systems as well as conventional controls.

The switch contacts of the NC contact are positively driven.

A lampholder for lamps with BA 9s (screw connection) and W2 × 4.6 d (solder connection) are available for the illuminated pushbutton units and indicator lights in addition to the contact blocks.

Contact blocks and lamp holders have terminal designations in accordance with EN 50 013.

#### Mounting

SIGNUM devices are easily and rapidly connected:

- Actuators or indicator lights are positioned in the opening of the front panel from the front
- Position the holder from the rear
- Tighten the screw on the holder
- Snap on the contact block or the lamp holder directly onto the operating mechanism from the back

#### Terminals

Devices for

- Screw terminal connection,
- Cage clamp terminal connection and
- Solder connection (solder pins 0.8 × 0.8 mm) are available.

The 3SB3 command devices have screw connections in the SIGUT termination system. The open terminals, captive screws, funnel-shaped wiring openings and screwdriver fed openings save time when connecting. Powered screwdrivers can be used.

The connection with cage spring terminal is rapid and the actuators can be mounted flush against each other.

#### Enclosure

Plastic housings for 1, 2, 3, 4 or 6 actuators are available for the round model. Housings for more than 6 actuators can be supplied upon request. They are suitable for the round and square models.

#### Communications-capable SIGNUM 3SB3 control devices

SIGNUM 3SB3 control devices can be connected to the actuator-sensor interface (AS interface) networking system by means of the AS-Interface 4I/4O application module for mounting on printed circuit boards. With this, four mechanical connecting devices can be scanned or four indicator lights can be controlled.

The illuminated command devices are supplied via the AS interface cable.

Pushbutton unit, plastic, with flat button

nsd0037h



Pushbutton unit, metal, with flat button

nsd0367h



The following connections to the AS interface are possible:

- AS-i user module for printed circuit boards
- AS-i single connection
- AS-i front plate module
- AS-i housing

For further information on the AS interface refer to Part 1.

SIGNUM is also communications-capable via PROFIBUS-DP.

#### Configuring

##### SIGNUM 3SB3 configuring software

The SIGNUM 3SB3 control devices can be selected and ordered using this software:

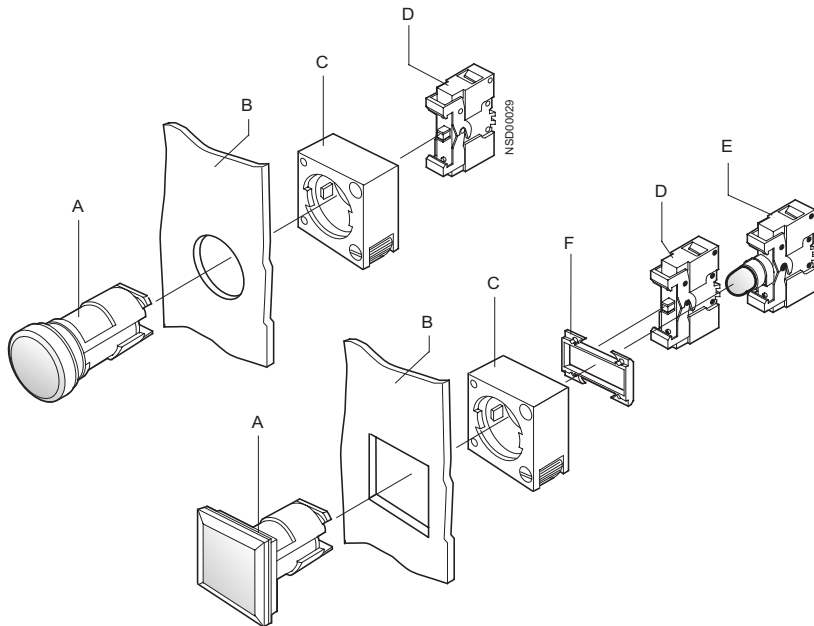
- Supply and ordering of customer-specific enclosures,
- Construction tool for designing control panels with SIGNUM 3SB3 command devices,
- Easy selection of the most varied choice of inscriptions,
- Generation of parts lists, component mounting diagrams and drill templates,
- Generation of the completed order.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3

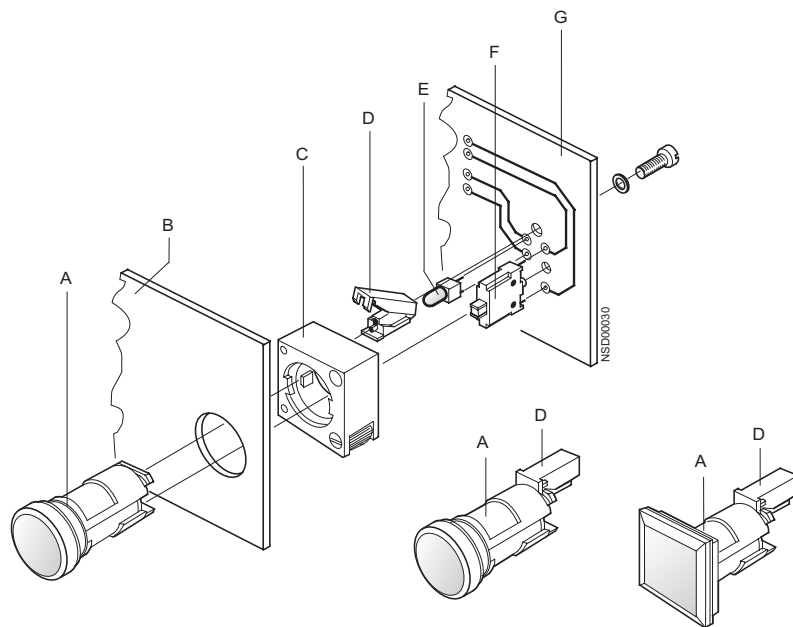
### Introduction

### Design



#### Front plate mounting

- A Actuator
- B Front plate
- C Holder
- D Contact block
- E Lampholder
- F Mounting element



#### Used on printed-circuit-boards

- A Actuator
- B Front plate
- C Holder
- D Holder for printed-circuit-board
- E Lampholder
- F Contact block
- G PCB

### Contact assignment

For one contact block with 2 contacts, e. g. 1 NO + 1 NC

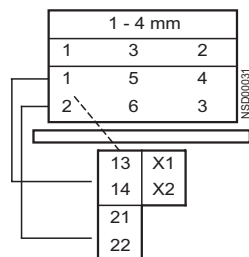
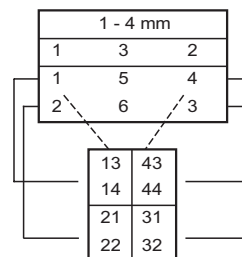
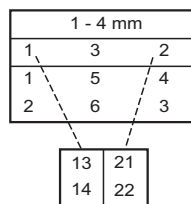
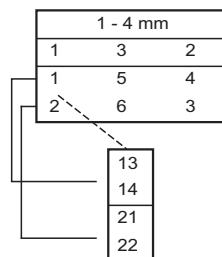
For 2 contact blocks each with 1 contact, e. g. 1 NO, 1 NC

For 2 contact blocks each with 2 contacts, e. g. 1 NO + 1 NC, 1 NO + 1 NC

For one contact block with 2 contacts, e. g. 1 NO + 1 NC and a lampholder

Fixing depth  
Holder  
Depth for contact blocks with 1 contact  
Depth for contact blocks with 2 contacts

Carrier for 3 blocks  
Contact blocks, lamp holders



#### Technical data according to IEC 60 947-5-1 (DIN VDE 0660 Part 200) and EN 418

<b>Rated insulation voltage <math>U_i</math></b> • Screw connection • Soldered connection	400 V 250 V																																																						
<b>Pollution degree</b>	Class 3 (according to DIN VDE 0110)																																																						
<b>Conventional free-air thermal current <math>I_{th}</math></b>	10 A																																																						
<b>Rated operational voltage <math>U_e</math> and the related rated operational current <math>I_e</math></b>	<table border="1"> <thead> <tr> <th></th> <th colspan="3">AC 50 to 60 Hz</th> <th colspan="2">DC</th> </tr> <tr> <th></th> <th><math>I_e</math>/AC-12</th> <th><math>I_e</math>/AC-15</th> <th></th> <th><math>I_e</math>/DC-12</th> <th><math>I_e</math>/DC-13</th> </tr> <tr> <th></th> <th>Screw/solder connection</th> <th>Screw terminals</th> <th>Solder pins</th> <th>Screw/solder connection</th> <th>Screw/solder connection</th> </tr> <tr> <th></th> <th>A</th> <th>A</th> <th>A</th> <th>A</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>at 24 V</td> <td>10</td> <td>6</td> <td>4</td> <td>10</td> <td>3</td> </tr> <tr> <td>48 V</td> <td>10</td> <td>6</td> <td>4</td> <td>5</td> <td>1.5</td> </tr> <tr> <td>110 V</td> <td>10</td> <td>6</td> <td>4</td> <td>2.5</td> <td>0.7</td> </tr> <tr> <td>230 V</td> <td>10</td> <td>6</td> <td>4</td> <td>1</td> <td>0.3</td> </tr> <tr> <td>400 V</td> <td>10</td> <td>3</td> <td>–</td> <td>–</td> <td>–</td> </tr> </tbody> </table>		AC 50 to 60 Hz			DC			$I_e$ /AC-12	$I_e$ /AC-15		$I_e$ /DC-12	$I_e$ /DC-13		Screw/solder connection	Screw terminals	Solder pins	Screw/solder connection	Screw/solder connection		A	A	A	A	A	at 24 V	10	6	4	10	3	48 V	10	6	4	5	1.5	110 V	10	6	4	2.5	0.7	230 V	10	6	4	1	0.3	400 V	10	3	–	–	–
	AC 50 to 60 Hz			DC																																																			
	$I_e$ /AC-12	$I_e$ /AC-15		$I_e$ /DC-12	$I_e$ /DC-13																																																		
	Screw/solder connection	Screw terminals	Solder pins	Screw/solder connection	Screw/solder connection																																																		
	A	A	A	A	A																																																		
at 24 V	10	6	4	10	3																																																		
48 V	10	6	4	5	1.5																																																		
110 V	10	6	4	2.5	0.7																																																		
230 V	10	6	4	1	0.3																																																		
400 V	10	3	–	–	–																																																		
<b>Ⓢ and Ⓜ data</b> Rated voltage • Contact block • Indicator light Conventional free-air thermal current Switching capacity	AC 300 V 125 V AC; 2.5 W for BA 9s, or 60 V AC; 1 W for wedge base W2 × 4.6 d 10 A A 300; R 300; A 600 same polarity																																																						
<b>Contact stability</b> Test voltage/test current	5 V/1 mA																																																						
<b>Short-circuit protection</b> (without any welding according to DIN VDE 0660, Part 200) • DIAZED fuse link, utilization category gL/gG • Miniature circuit-breaker with G characteristic acc. to DIN VDE 0641	10 A TDz, 16 A Dz 10 A																																																						
<b>Mechanical endurance</b> • Pushbutton units and contact blocks • Actuators, rotary or maintained contact • Illuminated pushbutton units <b>Electrical endurance</b> • with AC-15 duty with 3TF3, 3TF40 to 3TF43 contactors • with duty DC-12 or DC-13	10 × 10 <sup>6</sup> operating cycles 3 × 10 <sup>5</sup> operating cycles 3 × 10 <sup>6</sup> operating cycles  10 × 10 <sup>6</sup> operating cycles The endurance life of the contacts is not only dependent on the breaking current but also on the voltage, the inductivity of the current circuit and the switching speed. General information data is not possible.																																																						
<b>Operating frequency</b>	1000 operating cycles per hour																																																						
<b>Climatic withstand capability</b> <b>Ambient temperature</b>	Climate-proof; suitable for use on board ship –25 to +70 °C for LEDs or non-illuminated devices –25 to +60 °C for illuminated device with filament bulbs																																																						
<b>Degree of protection</b> acc. to IEC 60 529, DIN VDE 0470	IP 20 Contact block connections and lampholders behind the front panel IP 40 Switchrooms of the contact blocks behind the front panel IP 66 Enclosed plastic actuators and indicators; with IP 67 protective caps IP 67 NEMA type 4 metal actuators and indicators																																																						
<b>Lampholders</b> Screw terminal connection Soldered connection	for lamps with BA 9s base; incandescent, glow and LED lamps for lamp with wedge base W2 × 4.6 d; glow and LED lamps																																																						
<b>Conductor cross-sections</b> Screw terminal connection: • finely stranded with end sleeve • solid • solid with end sleeves to DIN 46 228 Soldered connection	2 × 0.5 to 1.5 mm <sup>2</sup> 2 × 1 to 2.5 mm <sup>2</sup> 2 × 0.5 to 0.75 mm <sup>2</sup> Solder pins 0.8 mm × 0.8 mm																																																						
<b>Tightening torque</b> of holder screw <b>Tightening torque</b> of terminal screws	max. 1 Nm 1 – 1.2 Nm																																																						
<b>Terminal marking</b> <b>Device identification</b>	acc. to EN 50 013: Sequence number on the holder Function number on the contact block through snap-on label																																																						
<b>Safety measures for SIGNUM, plastic</b>	Safety requirements are met automatically when the actuators and lens assemblies are mounted on metal front plates and housings. When mounted in insulated enclosures, the "protective insulation" safety requirements are met.																																																						
<b>Touch protection</b> (screw connection)	Finger-proof acc. to VBG 4 and DIN VDE 0106																																																						
<b>Shock resistance</b> according to IEC 60 068 Part 2-27 Shock duration Shock form	≤ 50 g Devices without incandescent lamp ≤ 30 g Devices with incandescent lamp 11 ms Half-sine																																																						

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Complete units

#### Selection and ordering data



Pushbutton unit with flat button



Illuminated pushbutton unit with flat button

Version	Colour of actuator	Contacts for frontplate mounting	DT	Order No.	Price	PG	Weight approx. kg	Pack Unit
				Preferred type	1 unit			
<b>Pushbutton unit with flat button</b>	black	1 NO	▶	<b>3SB3202-0AA11</b>		102	0.04	1
	black	1 NC	B	<b>3SB3203-0AA11</b>		102		
	red	1 NC	▶	<b>3SB3203-0AA21</b>		102		
	yellow	1 NO	B	<b>3SB3202-0AA31</b>		102		
	green	1 NO	▶	<b>3SB3202-0AA41</b>		102		
	blue	1 NO	B	<b>3SB3202-0AA51</b>		102		
	white	1 NO	▶	<b>3SB3202-0AA61</b>		102		
	black	1 NO + 1 NC	B	<b>3SB3201-0AA11</b>		102	0.05	1
	red	1 NO + 1 NC	B	<b>3SB3201-0AA21</b>		102		
	yellow	1 NO + 1 NC	B	<b>3SB3201-0AA31</b>		102		
	green	1 NO + 1 NC	B	<b>3SB3201-0AA41</b>		102		
	blue	1 NO + 1 NC	B	<b>3SB3201-0AA51</b>		102		
	white	1 NO + 1 NC	B	<b>3SB3201-0AA61</b>		102		
<b>Illuminated pushbutton with flat button with integrated LED UC 24 V</b>	red <sup>1)</sup>	1 NC	▶	<b>3SB3246-0AA21</b>		102	0.04	1
	yellow <sup>1)</sup>	1 NO	B	<b>3SB3245-0AA31</b>		102		
	green <sup>1)</sup>	1 NO	▶	<b>3SB3245-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO	B	<b>3SB3245-0AA51</b>		102		
	white	1 NO	B	<b>3SB3245-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO	▶	<b>3SB3245-0AA71</b>		102		
	red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3247-0AA21</b>		102	0.04	1
	yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3247-0AA31</b>		102		
	green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3247-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3247-0AA51</b>		102		
	white	1 NO + 1 NC	B	<b>3SB3247-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3247-0AA71</b>		102		
with integrated LED AC 110 V	red <sup>1)</sup>	1 NC	B	<b>3SB3250-0AA21</b>		102	0.04	1
	yellow <sup>1)</sup>	1 NO	B	<b>3SB3257-0AA31</b>		102		
	green <sup>1)</sup>	1 NO	B	<b>3SB3257-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO	B	<b>3SB3257-0AA51</b>		102		
	white	1 NO	B	<b>3SB3257-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO	B	<b>3SB3257-0AA71</b>		102		
	red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3251-0AA21</b>		102	0.047	1
	yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3251-0AA31</b>		102		
	green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3251-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3251-0AA51</b>		102		
	white	1 NO + 1 NC	B	<b>3SB3251-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3251-0AA71</b>		102		
with integrated LED AC 230 V	red <sup>1)</sup>	1 NC	▶	<b>3SB3254-0AA21</b>		102	0.04	1
	yellow <sup>1)</sup>	1 NO	B	<b>3SB3253-0AA31</b>		102		
	green <sup>1)</sup>	1 NO	▶	<b>3SB3253-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO	B	<b>3SB3253-0AA51</b>		102		
	white	1 NO	B	<b>3SB3253-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO	▶	<b>3SB3253-0AA71</b>		102		
	red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3255-0AA21</b>		102	0.047	1
	yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3255-0AA31</b>		102		
	green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3255-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3255-0AA51</b>		102		
	white	1 NO + 1 NC	B	<b>3SB3255-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3255-0AA71</b>		102		
with BA 9s lamp holder without lamp	red <sup>1)</sup>	1 NC	B	<b>3SB3207-0AA21</b>		102	0.05	1
	yellow <sup>1)</sup>	1 NO	B	<b>3SB3206-0AA31</b>		102		
	green <sup>1)</sup>	1 NO	B	<b>3SB3206-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO	B	<b>3SB3206-0AA51</b>		102		
	white	1 NO	B	<b>3SB3206-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO	B	<b>3SB3206-0AA71</b>		102		
	red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3205-0AA21</b>		102	0.06	1
	yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3205-0AA31</b>		102		
	green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3205-0AA41</b>		102		
	blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3205-0AA51</b>		102		
	white	1 NO + 1 NC	B	<b>3SB3205-0AA61</b>		102		
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB3205-0AA71</b>		102		




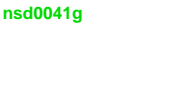





1) Inscription by inserting a label is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

Complete units

### Selection and ordering data

	Version	Colour of actuator/ Lock No.	Contacts for frontplate mounting	DT	Order No. Preferred type	Price 1 unit	PG	Weight approx. kg	Pack Unit
Mushroom push-pull-button unit  <b>nsd0560g</b>	<b>Mushroom push-pull button unit, Ø 40 mm, latching, unlatching by pulling</b>	red	1 NC	▶	<b>3SB32 03-1CA21</b>		102	0.036	1
			1 NO + 1 NC	B	<b>3SB32 01-1CA21</b>		102	0.045	
Selector switch  <b>nsd0041g</b>	<b>Selector switch, 2 switching positions</b> Switching sequence O-I, operating angle 50° latching  <b>nss 00439g</b>	black	1 NO	▶	<b>3SB32 02-2KA11</b>		102	0.033	1
			1 NO + 1 NC	▶	<b>3SB32 01-2KA11</b>		102	0.042	
Selector switch  <b>nsd0041g</b>	<b>Selector switch, 3 switching positions</b> Switching sequence I-O-II, operating angle 2 x 50° latching  <b>nss 00448g</b>	black	1 NO, 1 NO	▶	<b>3SB32 10-2DA11</b>		102	0.043	1
			1 NO + 1 NC, B	▶	<b>3SB32 08-2DA11</b>		102	0.061	
			1 NO, 1 NO	▶	<b>3SB32 10-2EA11</b>		102	0.043	1
			1 NO + 1 NC, B	▶	<b>3SB32 08-2EA11</b>		102	0.061	
RONIS key operated switch  <b>nsd0042g</b>	<b>RONIS key-operated switch, flat, 2 switching positions</b> Switching sequence O-I, latching, with key removable in any position, 50° operating angle  <b>nss 00444g</b>	SB 30	1 NO	▶	<b>3SB32 02-4AD11</b>		102	0.085	1
			1 NO + 1 NC	B	<b>3SB32 01-4AD11</b>		102	0.095	
<b>EMERGENCY-STOP command devices acc. to EN 418 with yellow backing plate, Ø 80 mm, labelled, can also be used with 3TK28 contactor safety combinations (see Part 8)</b>									
EMERGENCY-STOP mushroom pushbutton unit  <b>nsd0045g</b>	<b>EMERGENCY-STOP mushroom pushbutton unit, Ø 40 mm, with positive latching function, with turn unlatching mechanism</b>	red	1 NO	▶	<b>3SB32 03-1HA20</b>		102	0.036	1
			1 NO + 1 NC	▶ A	<b>3SB32 01-1HA20</b>		102	0.045	
			 <b>bg964041</b>						

▶ Positive opening acc. to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Complete units

#### Selection and ordering data



Indicator light with smooth lens



Indicator light with lens with concentric rings



Audible signal device



Drive for potentiometer

Version	Colour of lens	Operational voltage	DT	Order No.	Price	PG	Weight approx.	Pack approx.
				Preferred type	1 unit		kg	Unit
<b>Indicator light with smooth lens</b>								
with integrated LED UC 24 V	red		▶	<b>3SB3244-6AA20</b>		102	0.03	1
	yellow		B	<b>3SB3244-6AA30</b>		102		
	green		▶	<b>3SB3244-6AA40</b>		102		
	blue		B	<b>3SB3244-6AA50</b>		102		
	white		B	<b>3SB3244-6AA60</b>		102		
	clear		▶	<b>3SB3244-6AA70</b>		102		
with integrated LED AC 110 V	red		B	<b>3SB3248-6AA20</b>		102	0.04	1
	yellow		B	<b>3SB3248-6AA30</b>		102		
	green		B	<b>3SB3248-6AA40</b>		102		
	blue		B	<b>3SB3248-6AA50</b>		102		
	white		B	<b>3SB3248-6AA60</b>		102		
	clear		B	<b>3SB3248-6AA70</b>		102		
with integrated LED AC 230 V	red		▶	<b>3SB3252-6AA20</b>		102	0.04	1
	yellow		B	<b>3SB3252-6AA30</b>		102		
	green		▶	<b>3SB3252-6AA40</b>		102		
	blue		B	<b>3SB3252-6AA50</b>		102		
	white		B	<b>3SB3252-6AA60</b>		102		
	clear		▶	<b>3SB3252-6AA70</b>		102		
with BA 9s lamp holder without lamp	red		B	<b>3SB3204-6AA20</b>		102	0.04	1
	yellow		B	<b>3SB3204-6AA30</b>		102		
	green		B	<b>3SB3204-6AA40</b>		102		
	blue		B	<b>3SB3204-6AA50</b>		102		
	white		B	<b>3SB3204-6AA60</b>		102		
	clear		B	<b>3SB3204-6AA70</b>		102		
<b>Indicator light with lens with concentric rings</b>								
with integrated LED UC 24 V	red		▶	<b>3SB3244-6BA20</b>		102	0.04	1
	yellow		B	<b>3SB3244-6BA30</b>		102		
	green		▶	<b>3SB3244-6BA40</b>		102		
	blue		B	<b>3SB3244-6BA50</b>		102		
	white		B	<b>3SB3244-6BA60</b>		102		
	clear		▶	<b>3SB3244-6BA70</b>		102		
with integrated LED AC 110 V	red		B	<b>3SB3248-6BA20</b>		102	0.04	1
	yellow		B	<b>3SB3248-6BA30</b>		102		
	green		B	<b>3SB3248-6BA40</b>		102		
	blue		B	<b>3SB3248-6BA50</b>		102		
	white		B	<b>3SB3248-6BA60</b>		102		
	clear		B	<b>3SB3248-6BA70</b>		102		
with integrated LED AC 230 V	red		▶	<b>3SB3252-6BA20</b>		102	0.04	1
	yellow		B	<b>3SB3252-6BA30</b>		102		
	green		▶	<b>3SB3252-6BA40</b>		102		
	blue		B	<b>3SB3252-6BA50</b>		102		
	white		B	<b>3SB3252-6BA60</b>		102		
	clear		▶	<b>3SB3252-6BA70</b>		102		
with BA 9s lamp holder without lamp	red		▶	<b>3SB3204-6BA20</b>		102	0.04	1
	yellow		B	<b>3SB3204-6BA30</b>		102		
	green		▶	<b>3SB3204-6BA40</b>		102		
	blue		B	<b>3SB3204-6BA50</b>		102		
	white		B	<b>3SB3204-6BA60</b>		102		
	clear		▶	<b>3SB3204-6BA70</b>		102		
<b>Audible signal device, IP 65<sup>1)</sup></b>								
Continuous tone (2.4 kHz) Min. operational current 10 mA Min. sound pressure 80 dB/10 cm		UC 24 V	B	<b>3SB3233-7BA10</b>		102	0.03	1
		UC 115 V	B	<b>3SB3234-7BA10</b>		102		
		230 V AC/ DC	B	<b>3SB3235-7BA10</b>		102		
<b>Drive for potentiometer<sup>1)2)</sup></b>								
			B	<b>3SB1000-7CH07</b>		102	0.02	1

1) Cannot be used with 3SB38 enclosures.








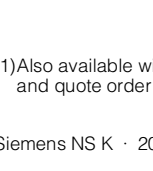
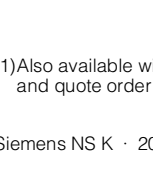
2) The potentiometer is not included in the scope of supply.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Pushbuttons and switches

#### Selection and ordering data

Version	Colour of actuator	Inscription	DT	Order No. ▶ Preferred type	Price 1 unit	PG	Weight approx. kg	Pack Unit
<i>including holder<sup>1)</sup></i>								
 Pushbutton with flat button	black red yellow green blue white grey clear <sup>2)</sup> green red white black	Inscription I Inscription O Inscription I Inscription O	▶ ▶ B ▶ B ▶ B B B B B B	▶ <b>3SB3000-0AA11</b>		102	0.02	5
				▶ <b>3SB3000-0AA21</b>		102		
				B <b>3SB3000-0AA31</b>		102		
				▶ <b>3SB3000-0AA41</b>		102		
				B <b>3SB3000-0AA51</b>		102		
				▶ <b>3SB3000-0AA61</b>		102		
				B <b>3SB3000-0AB51</b>		102		
				B <b>3SB3000-0AA71</b>		102		
				B <b>3SB3000-0AA81</b>		102		
				B <b>3SB3000-0AB01</b>		102		
				B <b>3SB3000-0AB11</b>		102		
				B <b>3SB3000-0AB21</b>		102		
 Pushbutton with raised button	black red yellow blue white		B B B B B	B <b>3SB3000-0BA11</b>		102	0.02	5
				B <b>3SB3000-0BA21</b>		102		
				B <b>3SB3000-0BA31</b>		102		
				B <b>3SB3000-0BA51</b>		102		
				B <b>3SB3000-0BA61</b>		102		
 Pushbutton with raised button, locking	black red		▶ B	▶ <b>3SB3000-0CA11</b>		102	0.03	5
				B <b>3SB3000-0CA21</b>		102		
 Pushbutton with raised front ring	black red yellow green blue white		B B B B B B	B <b>3SB3000-0AA12</b>		102	0.02	5
				B <b>3SB3000-0AA22</b>		102		
				B <b>3SB3000-0AA32</b>		102		
				B <b>3SB3000-0AA42</b>		102		
				B <b>3SB3000-0AA52</b>		102		
				B <b>3SB3000-0AA62</b>		102		
 Pushbutton with raised front ring (castell.)	black red yellow green		B B B B	B <b>3SB3000-0AA13</b>		100	0.02	5
				B <b>3SB3000-0AA23</b>		100		
				B <b>3SB3000-0AA33</b>		100		
				B <b>3SB3000-0AA43</b>		100		
 Illuminated pushbutton with flat button	red <sup>2)</sup> yell. <sup>2)</sup> green <sup>2)</sup> blue <sup>2)</sup> white clear <sup>2)</sup>		▶ ▶ ▶ ▶ ▶ ▶	▶ <b>3SB3001-0AA21</b>		100	0.02	5
				▶ <b>3SB3001-0AA31</b>		100		
				▶ <b>3SB3001-0AA41</b>		100		
				▶ <b>3SB3001-0AA51</b>		100		
				▶ <b>3SB3001-0AA61</b>		100		
				▶ <b>3SB3001-0AA71</b>		100		
 Illuminated pushbutton with raised button	red yellow green blue clear		B B B B B	B <b>3SB3001-0BA21</b>		100	0.02	5
				B <b>3SB3001-0BA31</b>		100		
				B <b>3SB3001-0BA41</b>		100		
				B <b>3SB3001-0BA51</b>		100		
				B <b>3SB3001-0BA71</b>		100		
 Illuminated pushbutton with flat button	black red yellow green blue white grey		B B B B B B B	B <b>3SB3000-0DA11</b>		100	0.07	5
				B <b>3SB3000-0DA21</b>		100		
				B <b>3SB3000-0DA31</b>		100		
				B <b>3SB3000-0DA41</b>		100		
				B <b>3SB3000-0DA51</b>		100		
				B <b>3SB3000-0DA61</b>		100		
				B <b>3SB3000-0DB51</b>		102		
 Illuminated pushbutton with raised button	red <sup>2)</sup> yell. <sup>2)</sup> green <sup>2)</sup> blue <sup>2)</sup> white <sup>2)</sup> clear <sup>2)</sup>		B B B B B B	B <b>3SB3001-0DA21</b>		100	0.07	5
				B <b>3SB3001-0DA31</b>		100		
				B <b>3SB3001-0DA41</b>		100		
				B <b>3SB3001-0DA51</b>		100		
				B <b>3SB3001-0DA61</b>		100		
				B <b>3SB3001-0DA71</b>		100		

<sup>1)</sup> Also available without holder. Supplement Order No. with “-Z” and quote order code “B01”.







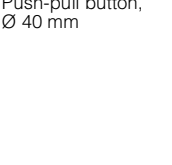
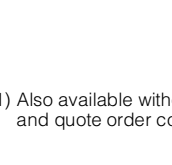
<sup>2)</sup> Inscription by inserting a label is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Pushbuttons and switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx. kg	Pack Unit
			▶ Preferred type	1 unit			
<i>including holder<sup>1)</sup></i>							
 Mushroom pushbutton, Ø 30 mm	<b>Mushroom pushbutton, Ø 30 mm</b>	black	B 3SB3000-1DA11		102	0.03	5
		red	B 3SB3000-1DA21		102		
		yellow	B 3SB3000-1DA31		102		
		green	B 3SB3000-1DA41		102		
 Mushroom pushbutton, Ø 40 mm	<b>Mushroom pushbutton, Ø 40 mm</b>	black	▶ 3SB3000-1GA11		102	0.03	5
		red	▶ 3SB3000-1GA21		102		
		yellow	B 3SB3000-1GA31		102		
		green	B 3SB3000-1GA41		102		
 Illuminated mushroom pushbutton, Ø 30 mm incl. holder for 3 elements	<b>Illuminated mushroom pushbutton, Ø 30 mm</b>	yellow	B 3SB3001-1DA31		102	0.02	5
		green	B 3SB3001-1DA41		102	0.04	
		white	B 3SB3001-1DA61		102	0.02	
 Illuminated mushroom pushbutton, Ø 40 mm incl. holder for 3 elements	<b>Illuminated mushroom pushbutton, Ø 40 mm</b>	yellow	B 3SB3001-1GA31		102	0.03	5
		green	B 3SB3001-1GA41		102		
		white	B 3SB3001-1GA61		102		
 Push-pull button Ø 30 mm, latching unlatching by pulling	<b>Push-pull button Ø 30 mm, latching</b>	black	B 3SB3000-1EA11		102	0.02	5
		red <sup>2)</sup>	B 3SB3000-1EA21		102	0.03	
 Illuminated mushroom push-button, Ø 30 mm	<b>Push-pull button Ø 40 mm, latching</b>	black	▶ 3SB3000-1CA11		102	0.03	5
		red	▶ 3SB3000-1CA21		102		
 Illuminated mushroom push-button, Ø 40 mm	<b>Push-pull button, Ø 30 mm, latching, illuminated</b>	red	B 3SB3001-1EA21		102	0.03	5
		yellow	B 3SB3001-1EA31		102	0.06	
		green	B 3SB3001-1EA41		102	0.03	
		blue	B 3SB3001-1EA51		102		
		clear	B 3SB3001-1EA71		102	0.02	
 Push-pull button, Ø 30 mm	<b>Push-pull button, Ø 40 mm latching, illuminated</b>	red	B 3SB3001-1CA21		102	0.03	5
		yellow	B 3SB3001-1CA31		102		
		green	B 3SB3001-1CA41		102		
		blue	B 3SB3001-1CA51		102		
		clear	B 3SB3001-1CA71		102		

1) Also available without holder. Supplement Order No. with “-Z” and quote order code “B01”.









2) Maximum components provided: 3 single pole or 2 double-pole contact elements. When using the 3SB39 01-0AB holder, the central command position must not be empty.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Selector switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No. ▶ Preferred type	Price 1 unit	PG	Weight approx. kg	Pack Unit	
<i>including holder<sup>1)</sup></i>								
<b>Selector switches with 2 switching positions</b>								
 <p>Selector switch nsd0059g</p>	 <p>Switching sequence O-I, latching, 50° operating angle</p>	<b>non-illuminated</b>	black red green white	▶ B B B B	<b>3SB30 00-2KA11</b> <b>3SB30 00-2KA21</b> <b>3SB30 00-2KA41</b> <b>3SB30 00-2KA61</b>	102 102 102 102	0.023	5
		<b>illuminated</b> with holder for 3 elements	red yellow green blue clear	B B B B B	<b>3SB30 01-2KA21</b> <b>3SB30 01-2KA31</b> <b>3SB30 01-2KA41</b> <b>3SB30 01-2KA51</b> <b>3SB30 01-2KA71</b>	102 102 102 102 102	0.023	5
 <p>Illuminated selector switch nsd0060g</p>	 <p>Switching sequence O-I, non-latching (return from the right), 50° operating angle</p>	<b>non-illuminated</b>	black red green white	▶ B B B B	<b>3SB30 00-2LA11</b> <b>3SB30 00-2LA21</b> <b>3SB30 00-2LA41</b> <b>3SB30 00-2LA61</b>	102 102 102 102	0.023	5
		<b>illuminated</b> with holder for 3 elements	red yellow green blue clear	B B B B B	<b>3SB30 01-2LA21</b> <b>3SB30 01-2LA31</b> <b>3SB30 01-2LA41</b> <b>3SB30 01-2LA51</b> <b>3SB30 01-2LA71</b>	102 102 102 102 102	0.023	5
<b>Selector switches with 3 switching positions</b>								
 <p>Switching sequence I-O-II, latching, 2 × 50° operating angle</p>	<b>non-illuminated</b>	black red green white	▶ B B B B	<b>3SB30 00-2DA11</b> <b>3SB30 00-2DA21</b> <b>3SB30 00-2DA41</b> <b>3SB30 00-2DA61</b>	102 102 102 102	0.023	5	
								<b>illuminated</b> with holder for 3 elements
 <p>Switching sequence I-O-II, non-latching (return from the right and left), 2 × 50° operating angle</p>	<b>non-illuminated</b>	black red green white	▶ B B B B	<b>3SB30 00-2EA11</b> <b>3SB30 00-2EA21</b> <b>3SB30 00-2EA41</b> <b>3SB30 00-2EA61</b>	102 102 102 102	0.023	5	
								<b>illuminated</b> with holder for 3 elements
 <p>Switching sequence I-O-II, latching to the right, non-latching to the left (return from the left), 2 × 50° operating angle</p>	<b>non-illuminated<sup>2)</sup></b>	black red green white	▶ B B B B	<b>3SB30 00-2GA11</b> <b>3SB30 00-2GA21</b> <b>3SB30 00-2GA41</b> <b>3SB30 00-2GA61</b>	102 102 102 102	0.023	5	
								<b>illuminated</b> with holder for 3 elements
 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 × 50° operating angle</p>	<b>non-illuminated<sup>2)</sup></b>	black red green white	▶ B B B B	<b>3SB30 00-2FA11</b> <b>3SB30 00-2FA21</b> <b>3SB30 00-2FA41</b> <b>3SB30 00-2FA61</b>	102 102 102 102	0.023	5	
								<b>illuminated</b> with holder for 3 elements

1) Also available without holder. When ordering, append “-Z” to the order number and specify order code “B01”.








2) Also available as illuminated selector switch. When ordering, append “-Z” to the order number and specify “illuminated selector switch” and the colour in plain text.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Key operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov-able in position	DT	Order No.	Price	PG	Weight approx.	Pack
					▶ Preferred type	1 unit		kg	Unit
<i>including holder<sup>1)</sup></i>									
<b>RONIS key operated switch</b>									
	 Switching sequence O-I, latching, 50° operating angle nss 00439g	RONIS flat	SB 30	O+I O I	▶ 3SB30 00-4HD11 ▶ 3SB30 00-4HD01 ▶ 3SB30 00-4HD21		102	0.075	
		RONIS flat	SB 30	O+I O I	▶ 3SB30 00-4AD11 ▶ 3SB30 00-4AD01 ▶ 3SB30 00-4AD21		102	0.075	1
CES key operated switch	 Switching sequence O-I, latching, 50° operating angle nss 00444g	CES SSG 10		O+I O I	▶ 3SB30 00-4LD11 ▶ 3SB30 00-4LD01 ▶ 3SB30 00-4LD21		102	0.126	1
		CES LSG 1		O+I O	▶ 3SB30 00-4LF01 ▶ 3SB30 00-4LF11		102		
IKON key operated switch	 nsd0562g	IKON 360012 K1		O+I O	▶ 3SB30 00-5LD11 ▶ 3SB30 00-5LD01		102	0.131	1
		BKS 1 NO		O+I O I	▶ 3SB30 00-5AD11 ▶ 3SB30 00-5AD01 ▶ 3SB30 00-5AD21		102	0.126	1
		E1 for VW <sup>2)</sup>		O+I O	▶ 3SB30 00-5AE01 ▶ 3SB30 00-5AE11		102		
		E2 for VW <sup>2)</sup>		O+I O	▶ 3SB30 00-5AE21 ▶ 3SB30 00-5AE31		102		
		E7 for VW <sup>2)</sup>		O+I O	▶ 3SB30 00-5AE41 ▶ 3SB30 00-5AE51		102		
		E9 for VW <sup>2)</sup>		O+I O	▶ 3SB30 00-5AE61 ▶ 3SB30 00-5AE71		102		
BKS key operated switch	 nsd0563g	O.M.R. 73038 light blue		O+I O	▶ 3SB30 00-3AG11 ▶ 3SB30 00-3AG01		102	0.117	1
		O.M.R. 73037 red		O+I O I	▶ 3SB30 00-3AH11 ▶ 3SB30 00-3AH01 ▶ 3SB30 00-3AH21		102		
		O.M.R. 73034 black		O+I O	▶ 3SB30 00-3AJ11 ▶ 3SB30 00-3AJ01		102		
		O.M.R. 73033 yellow		O+I O	▶ 3SB30 00-3AK11 ▶ 3SB30 00-3AK01		102		
		RONIS flat	SB 30	O	▶ 3SB30 00-4BD01		102	0.075	1
		CES SSG 10		O	▶ 3SB30 00-4MD01		102	0.126	1
O.M.R. key operated switch	 nsd0564g	CES LSG 1		O	▶ 3SB30 00-4MF11		102		
		IKON 360012 K1		O	▶ 3SB30 00-5MD01		102	0.131	1
O.M.R. key operated switch	 nsd0067g	BKS 1 NO		O	▶ 3SB30 00-5BD01		102	0.126	1
		O.M.R. <sup>3)</sup> 73038 light blue		O	▶ 3SB30 00-3BG01		102	0.117	1
		O.M.R. <sup>3)</sup> 73037 red		O	▶ 3SB30 00-3BH01		102		
		O.M.R. <sup>3)</sup> 73034 black		O	▶ 3SB30 00-3BJ01		102		
		O.M.R. <sup>3)</sup> 73033 yellow		O	▶ 3SB30 00-3BK01		102		

For special designs, see page 9/29.

1) Also available without holder. When ordering, append “-Z” to the order number and specify order code “B01”.

2) Supplied without key.








3) In accordance with FIAT car company standards, can also be used by other users.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Key operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov- able in position	DT	Order No.	Price	PG	Weight approx.	Pack	
						1 unit		kg	Unit	
<i>including holder<sup>1)</sup></i>										
RONIS key operated switch	<b>Key operated switches with 2 keys and 3 switching positions</b>									
		Switching sequence I-O-II, latching, 2 × 50° operating angle	RONIS flat	SB 30	O+I+II O I+II I II O+I	B B B B B B	<b>3SB30 00-4DD11</b> <b>3SB30 00-4DD01</b> <b>3SB30 00-4DD41</b> <b>3SB30 00-4DD21</b> <b>3SB30 00-4DD31</b> <b>3SB30 00-4DD51</b>	102 102 102 102 102 102	0.075	1
<b>nsd0063g</b>	<b>nss 00448g</b>									
CES key operated switch										
										
<b>nsd0562g</b>										
IKON key operated switch										
										
<b>nsd0563g</b>										
BKS key operated switch										
										
<b>nsd0564g</b>										
O.M.R. key operated switch										
										
<b>nsd0067g</b>										
		Switching sequence I-O-II, non-latching (return from right and left), 2 × 50° operating angle	RONIS flat	SB 30	O	B	<b>3SB30 00-4ED01</b>	102	0.075	1
	<b>nss 00445g</b>									
			CES	SSG 10	O	B	<b>3SB30 00-4QD01</b>	102	0.126	1
			IKON	350012 K 1	O	B	<b>3SB30 00-5QD01</b>	102	0.131	1
			BKS	1 NO	O	B	<b>3SB30 00-5ED01</b>	102	0.126	1
			O.M.R. <sup>2)</sup>	73038 light blue	O	B	<b>3SB30 00-3EG01</b>	102	0.117	1
				73037 red	O	B	<b>3SB30 00-3EH01</b>	102		
				73034 black	O	B	<b>3SB30 00-3EJ01</b>	102		
				73033 yellow	O	B	<b>3SB30 00-3EK01</b>	102		

For special designs, see page 9/29.

1) Also available without holder. When ordering, append “-Z” to the order number and specify order code “B01”.








2) In accordance with FIAT car company standards, can also be used by other users.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Key operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov- able in position	DT	Order No.	Price	PG	Weight approx.	Pack	
						1 unit		kg	Unit	
<i>including holder<sup>1)</sup></i>										
RONIS key operated switch	<b>Key operated switches with 2 keys and 3 switching positions</b>									
 <p>nsd0063g</p>	 <p>Switching sequence I-O-II, latching to the right, non-latching to the left (return from the left), 2 x 50° operating angle</p> <p>nss 00446g</p>	RONIS flat	SB 30	O+II O II	B B B	<b>3SB30 00-4GD61</b> <b>3SB30 00-4GD01</b> <b>3SB30 00-4GD31</b>	102 102 102	0.075	1	
		CES	SSG 10	O+II O II	B B B	<b>3SB30 00-4SD61</b> <b>3SB30 00-4SD01</b> <b>3SB30 00-4SD31</b>	102 102 102	0.126	1	
		BKS	1 NO	O	B	<b>3SB30 00-5GD01</b>	102	0.126	1	
CES key operated switch	 <p>nsd0562g</p>	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p> <p>nss 00447g</p>	RONIS flat	SB 30	O+I O I	B B B	<b>3SB30 00-4FD51</b> <b>3SB30 00-4FD01</b> <b>3SB30 00-4FD21</b>	102 102 102	0.075	1
CES			SSG 10	O+I O I	B B B	<b>3SB30 00-4RD51</b> <b>3SB30 00-4RD01</b> <b>3SB30 00-4RD21</b>	102 102 102	0.126	1	
IKON			350012 K1	O+I	B	<b>3SB30 00-5RD51</b>	102	0.131	1	
IKON key operated switch	 <p>nsd0563g</p>	<p>O.M.R. 73038 light blue 73034 black</p>	O	B	<b>3SB30 00-3FG01</b>	102	0.117	1		
I			B	<b>3SB30 00-3FG21</b>	102					
I			B	<b>3SB30 00-3FJ21</b>	102					
BKS key operated switch	 <p>nsd0564g</p>		O+I	B	<b>3SB30 00-5FD51</b>	102	0.126	1		
O			B	<b>3SB30 00-5FD01</b>	102					
I			B	<b>3SB30 00-5FD21</b>	102					
O.M.R. key operated switch	 <p>nsd0067g</p>		O	B	<b>3SB30 00-3FG01</b>	102	0.117	1		
I			B	<b>3SB30 00-3FG21</b>	102					
I			B	<b>3SB30 00-3FJ21</b>	102					

For special designs, see page 9/29.

1) Also available without holder. When ordering, append “-Z” to the order number and specify order code “B01”.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Key operated switches

#### Selection and ordering data

##### Special locks for keyswitches

Special locks, which are listed in the table below. The average delivery time is 5 working days.

In this case, append “-Z”, the order code **Y02** and the desired key operated switch number to the order number.

##### Ordering example

3SB30 00-4LD01-Z  
Y02  
Z = SSG11

##### Note

For applications in which access security is important and several key operated switch numbers are used, we recommend the use of BKS, CES or IKON locks.

Order No. Code	Possible special locks	Order No.	Possible special locks	Order No.	Possible special locks
3SB3. ...-4AD...-Z Y02	SB31 to SB49, T421 to T455, T458	3SB3. ...-4LD...-Z Y02	SSG 11 to SSG 15	3SB3. ...-5AD...-Z Y02	E1, E2, E7, E9
3SB3. ...-4BD...-Z Y02		3SB3. ...-4MD...-Z Y02		3SB3. ...-5BD...-Z Y02	
3SB3. ...-4DD...-Z Y02		3SB3. ...-4PD...-Z Y02		3SB3. ...-5DD01-Z Y02	
3SB3. ...-4ED...-Z Y02		3SB3. ...-4QD...-Z Y02		3SB3. ...-5DD11-Z Y02	
3SB3. ...-4GD...-Z Y02		3SB3. ...-4SD...-Z Y02		3SB3. ...-5DD41-Z Y02	
3SB3. ...-4FD...-Z Y02		3SB3. ...-4RD...-Z Y02		3SB3. ...-5ED...-Z Y02	
				3SB3. ...-5GD01-Z Y02	
				3SB3. ...-5FD01-Z Y02	
				3SB3. ...-5FD51-Z Y02	E 9
3SB3. ...-1BA20-Z Y02	SB31 to SB49, T421 to T455, T458	3SB3. ...-1KA20-Z Y02	SSP 9	3SB3. ...-1LA20-Z Y02	E2, E7, E9

Special locks which are not listed in the above table. The average delivery time is 25 working days.

In this case, append “-Z”, the order code **Y01** and the desired key operated switch number to the order number.

##### Ordering example

3SB30 00-4LD01-Z  
Y01  
Z = SSG18

##### Note

Special locks for VW (E1, E2, ...) will be delivered without keys, all others with 2 keys.

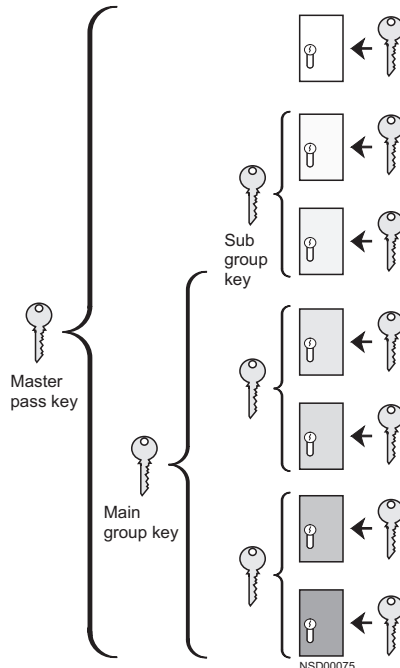
#### Master and pass key systems

Safety key operated switch actuators with BKS, CES, IKON and O.M.R. can be supplied for use with:

- central key operated switch systems,
- master key systems,
- central master key systems,
- master pass key systems.

Please enquire for price and delivery time.

Example of master pass-key system










# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm



### EMERGENCY-STOP mushroom pushbuttons

#### Selection and ordering data

Version	Colour of actuator, key withdrawable in position	DT	Order No.	Price	PG	Weight approx.	Pack
		▶	Preferred type	1 unit		kg	Unit
<p><i>EMERGENCY-STOP command devices according to EN 418, including holder<sup>1) 2)</sup>, can also be used with 3TK28 contactor safety combinations (see Section 8)</i></p>							
EMERGENCY-STOP mushroom pushbutton  <i>nsd0068g</i>	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function</b> unlatching by turning the knob to the left	red		▶ <b>3SB30 00-1HA20</b>		102 0.044	5
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with RONIS lock</b> Lock No. SB 30, supplied with 2 keys, unlocking only possible using key	red ON/OFF		B <b>3SB30 00-1BA20</b>		102 0.1	1
EMERGENCY-STOP mushroom pushbutton with lock  <i>nsd0069g</i>	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with CES lock</b> Lock No. SSG 10, supplied with 2 keys, unlocking only possible using key	red ON/OFF		B <b>3SB30 00-1KA20</b>		102 0.04	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with BKS lock</b> Lock No. S1, supplied with 2 keys, unlocking only possible using key	red ON/OFF		B <b>3SB30 00-1LA20</b>		102 0.04	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. lock</b> Lock No. 73037, supplied with 2 keys, unlocking only possible using key	red ON/OFF		B <b>3SB30 00-1MA20</b>		102 0.04	1

### Indicator lights and audible signal devices

#### Selection and ordering data

Version	Colour of lens	DT	Order No.	Price	PG	Weight approx.	Pack
		▶	Preferred type	1 unit		kg	Unit
<p><i>including holder<sup>1)</sup></i></p>							
Indicator light  <i>nsd0565g</i>	with smooth lens	red	▶ <b>3SB30 01-6AA20</b>		102	0.018	5
		yellow	▶ <b>3SB30 01-6AA30</b>		102		
		green	▶ <b>3SB30 01-6AA40</b>		102		
		blue	B <b>3SB30 01-6AA50</b>		102		
		white	B <b>3SB30 01-6AA60</b>		102		
		clear	▶ <b>3SB30 01-6AA70</b>		102		
Audible signal device  <i>nsd0071g</i>	with lens with concentric rings	red	B <b>3SB30 01-6BA20</b>		102	0.018	5
		yellow	B <b>3SB30 01-6BA30</b>		102		
		green	B <b>3SB30 01-6BA40</b>		102		
		blue	B <b>3SB30 01-6BA50</b>		102		
		white	B <b>3SB30 01-6BA60</b>		102		
		clear	B <b>3SB30 01-6BA70</b>		102		
	<b>Audible signal device, IP 40<sup>3)</sup></b> for audible signal transducer DC 24V <sup>4)</sup> with BA 9s holder	black	B <b>3SB30 00-7AA10</b>		102	0.018	5

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.

2) The yellow backing plate must be ordered separately; see page 9/57.

3) Audible signal device, IP 65, see page 9/22.





4) Audible signal transducer must be ordered separately when using the 3SB34 00-1A lampholder; see page 9/58.

# Pushbutton Units and Indicator Lights



## SIGNUM 3SB3, ○ Round Programme, 22 mm

### Twin pushbuttons

#### Selection and ordering data

Version	Colour	DT	Order No.	Price	PG	Weight approx.	Pack
				1 unit		kg	Unit
Twin pushbutton with flat buttons  nsd0072g	Twin pushbutton, IP 65, with flat buttons <sup>2)</sup> <i>including holder<sup>1)</sup></i>	green/red inscription I/O	B <b>3SB31 00-8AC21</b>		102	0.027	5
		white/black inscription I/O	B <b>3SB31 00-8AC31</b>		102		
Twin pushbutton with indicator light, with flat and raised buttons  nsd0073g	Twin pushbutton, IP 65, with flat and raised buttons <sup>2)</sup>	green/red inscription I/O	B <b>3SB31 00-8CC21</b>		102	0.027	5
		white/black inscription I/O	B <b>3SB31 00-8CC31</b>		102		
Twin pushbutton with indicator light, with flat and raised buttons  nsd0073g	Twin pushbutton with indicator light, IP 65, with flat buttons <sup>2)</sup> incl. holders for 3 elements	green/red inscription I/O	B <b>3SB31 01-8BC21</b>		102	0.027	5
		white/black inscription I/O	B <b>3SB31 01-8BC31</b>		102		
Twin pushbutton with indicator light, with flat and raised buttons  nsd0073g	Twin pushbutton with indicator light, IP 65, with flat and raised buttons <sup>2)</sup> incl. holder for 3 elements	green/red inscription I/O	B <b>3SB31 01-8DC21</b>		102	0.027	5
		white/black inscription I/O	B <b>3SB31 01-8DC31</b>		102		

#### Accessories

Version	DT	Order No.	Price	PG	Weight approx.	Pack
			1 unit		kg	Unit
Inscription plate  nsd0074g		B <b>3SB39 22-0AY</b>		102		10
Protective cap  nsd0075g		B <b>3SB39 21-0AQ</b>		102		1

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.

2) Black inscription with green, red and white buttons, white inscription with black buttons.



3) For inscription plates, see pages 9/54 and 9/55.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, □ Square Programme, 26 mm × 26 mm

### Complete units

#### Selection and ordering data

	Version	Colour of actuator	Contacts for front DT plate mounting version	Order No.	Price	PG	Weight approx.	Pack														
					1 unit		kg	Unit														
Pushbutton unit  <i>nsd0076g</i>	<b>Pushbutton units with flat button</b>	black	1 NO	B	<b>3SB33 02-0AA11</b>	102	0.029	1														
		black	1 NC	B	<b>3SB33 03-0AA11</b>																	
		red	1 NC	B	<b>3SB33 03-0AA21</b>																	
		yellow	1 NO	B	<b>3SB33 02-0AA31</b>																	
		green	1 NO	B	<b>3SB33 02-0AA41</b>																	
		blue	1 NO	B	<b>3SB33 02-0AA51</b>																	
		white	1 NO	B	<b>3SB33 02-0AA61</b>																	
		black	1 NO + 1 NC	B	<b>3SB33 01-0AA11</b>																	
		red	1 NO + 1 NC	B	<b>3SB33 01-0AA21</b>																	
		yellow	1 NO + 1 NC	B	<b>3SB33 01-0AA31</b>																	
		green	1 NO + 1 NC	B	<b>3SB33 01-0AA41</b>																	
		blue	1 NO + 1 NC	B	<b>3SB33 01-0AA51</b>																	
		white	1 NO + 1 NC	B	<b>3SB33 01-0AA61</b>																	
		Illuminated pushbutton unit  <i>nsd0077g</i>	<b>Illuminated pushbutton units with flat button</b>	with integrated LED AC/DC 24 V					red <sup>1)</sup>	1 NC	B	<b>3SB33 46-0AA21</b>	102	0.04	1							
				yellow <sup>1)</sup>	1 NO				B	<b>3SB33 45-0AA31</b>												
green <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA41</b>																	
blue <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA51</b>																	
white	1 NO			B	<b>3SB33 45-0AA61</b>																	
clear <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA71</b>																	
red <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA21</b>	102	0.047	1														
yellow <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA31</b>																	
green <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA41</b>																	
blue <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA51</b>																	
white	1 NO + 1 NC			B	<b>3SB33 47-0AA61</b>																	
clear <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA71</b>																	
with integrated LED AC 230 V				red <sup>1)</sup>	1 NC				B	<b>3SB33 54-0AA21</b>	102	0.04				1						
yellow <sup>1)</sup>	1 NO			B	<b>3SB33 53-0AA31</b>																	
green <sup>1)</sup>	1 NO			B	<b>3SB33 53-0AA41</b>																	
blue <sup>1)</sup>	1 NO			B	<b>3SB33 53-0AA51</b>																	
white	1 NO			B	<b>3SB33 53-0AA61</b>																	
clear <sup>1)</sup>	1 NO			B	<b>3SB33 53-0AA71</b>																	
red <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 55-0AA21</b>				102	0.047							1					
yellow <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 55-0AA31</b>																	
green <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 55-0AA41</b>																	
blue <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 55-0AA51</b>																	
white	1 NO + 1 NC			B	<b>3SB33 55-0AA61</b>																	
clear <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 55-0AA71</b>																	
with BA 9s lamp holder				red <sup>1)</sup>	1 NC													B	<b>3SB33 07-0AA21</b>	102	0.041	1
yellow <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA31</b>																	
green <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA41</b>																	
blue <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA51</b>																	
white	1 NO			B	<b>3SB33 06-0AA61</b>																	
clear <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA71</b>																	
red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 05-0AA21</b>	102	0.050								1									
yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 05-0AA31</b>																			
green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 05-0AA41</b>																			
blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 05-0AA51</b>																			
white	1 NO + 1 NC	B	<b>3SB33 05-0AA61</b>																			
clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 05-0AA71</b>																			

**EMERGENCY-STOP command devices according to EN 418 with yellow backing plate, Ø 80 mm, labelled, can also be used with 3TK28 contactor safety combinations (see Section 8)**

EMERGENCY-STOP mushroom pushbutton unit



**Mushroom pushbutton, Ø 40 mm, red with positive latching function, unlatching by turning**

red

1 NO



B

**3SB33 03-1HA20**

102

0.053

1

1 NO + 1 NC



B

**3SB33 01-1HA20**

102

0.061

*bg964041*




1) Inscription by inserting a label is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, □ Square Programme, 26 mm × 26 mm



Complete units

### Selection and ordering data

Version	Colour of lens	DT	Order No.	Price	PG	Weight approx.	Pack	
				1 unit		kg	Unit	
 Indicator light nsd0079g	<b>Indicator light</b>							
	with integrated LED AC/DC 24 V	red	B	<b>3SB33 44-6AA20</b>		102	0.03	1
		yellow	B	<b>3SB33 44-6AA30</b>		102		
		green	B	<b>3SB33 44-6AA40</b>		102		
		blue	B	<b>3SB33 44-6AA50</b>		102		
		white	B	<b>3SB33 44-6AA60</b>		102		
		clear	B	<b>3SB33 44-6AA70</b>		102		
	with integrated LED AC 230 V	red	B	<b>3SB33 52-6AA20</b>		102	0.03	1
		yellow	B	<b>3SB33 52-6AA30</b>		102		
		green	B	<b>3SB33 52-6AA40</b>		102		
		blue	B	<b>3SB33 52-6AA50</b>		102		
		white	B	<b>3SB33 52-6AA60</b>		102		
		clear	B	<b>3SB33 52-6AA70</b>		102		
	with BA 9s lamp holder	red	B	<b>3SB33 04-6AA20</b>		102	0.03	1
		yellow	B	<b>3SB33 04-6AA30</b>		102		
		green	B	<b>3SB33 04-6AA40</b>		102		
		blue	B	<b>3SB33 04-6AA50</b>		102		
		white	B	<b>3SB33 04-6AA60</b>		102		
	clear	B	<b>3SB33 04-6AA70</b>		102			

Pushbuttons

### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Pack	
				1 unit		kg	Unit	
 Pushbutton nsd0080g	<i>including holder<sup>1)</sup></i> <b>Pushbutton with flat button</b>							
		black	B	<b>3SB31 10-0AA11</b>		102	0.019	5
		red	B	<b>3SB31 10-0AA21</b>		102		
		yellow	B	<b>3SB31 10-0AA31</b>		102		
		green	B	<b>3SB31 10-0AA41</b>		102		
		blue	B	<b>3SB31 10-0AA51</b>		102		
		white	B	<b>3SB31 10-0AA61</b>		102		
		clear <sup>2)</sup>	B	<b>3SB31 10-0AA71</b>		102		
	<b>Pushbutton with raised front ring</b> (Height 13 mm)	black	B	<b>3SB31 10-0AA12</b>		102	0.02	5
		red	B	<b>3SB31 10-0AA22</b>		102		
		white	B	<b>3SB31 10-0AA62</b>		102		
	<b>Pushbutton with raised front ring</b> with castellations (height 13 mm)	black	B	<b>3SB31 10-0AA13</b>		102	0.02	5
		yellow	B	<b>3SB31 10-0AA33</b>		102		
		green	B	<b>3SB31 10-0AA43</b>		102		
	 Illuminated pushbutton nsd0081g	<b>Illuminated pushbutton with flat button</b> incl. holder for 3 elements						
		red <sup>2)</sup>	B	<b>3SB31 11-0AA21</b>		102	0.019	5
		yell. <sup>2)</sup>	B	<b>3SB31 11-0AA31</b>		102		
		green <sup>2)</sup>	B	<b>3SB31 11-0AA41</b>		102		
		blue <sup>2)</sup>	B	<b>3SB31 11-0AA51</b>		102		
		white	B	<b>3SB31 11-0AA61</b>		102		
	clear <sup>2)</sup>	B	<b>3SB31 11-0AA71</b>		102			

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.



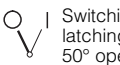

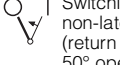

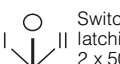

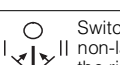


2) Inscription by inserting a label is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, □ Square Programme, 26 mm × 26 mm

### Pushbutton switches and selector switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Pack		
				1 unit		kg	Unit		
<i>including holder<sup>1)</sup></i>									
 <p>Pushbutton switch <b>nsd0080g</b></p>	<b>Pushbutton switch, latching, with flat button</b> unlatching by pressing again		black red yellow green blue white	B B B B B B	<b>3SB31 10-0DA11</b> <b>3SB31 10-0DA21</b> <b>3SB31 10-0DA31</b> <b>3SB31 10-0DA41</b> <b>3SB31 10-0DA51</b> <b>3SB31 10-0DA61</b>	102 102 102 102 102 102	5		
	<b>Illuminated pushbutton switch, latching, with flat button</b> incl. holder for 3 elements unlatching by pressing again		red <sup>2)</sup> yell. <sup>2)</sup> green <sup>2)</sup> blue <sup>2)</sup> white clear <sup>2)</sup>	B B B B B B	<b>3SB31 11-0DA21</b> <b>3SB31 11-0DA31</b> <b>3SB31 11-0DA41</b> <b>3SB31 11-0DA51</b> <b>3SB31 11-0DA61</b> <b>3SB31 11-0DA71</b>	102 102 102 102 102 102	5		
	<b>Selector switches with 2 switching positions</b>								
	 <p>Selector switch <b>nsd0081g</b></p>	 <p>Switching sequence O-I, latching, 50° operating angle <b>nss 00439g</b></p>	<b>non-illuminated</b>	black red green white	B B B B	<b>3SB31 10-2KA11</b> <b>3SB31 10-2KA21</b> <b>3SB31 10-2KA41</b> <b>3SB31 10-2KA61</b>	102 102 102 102	5	
			<b>illuminated</b> incl. holder for 3 elements	red yellow green blue clear	B B B B B	<b>3SB31 11-2KA21</b> <b>3SB31 11-2KA31</b> <b>3SB31 11-2KA41</b> <b>3SB31 11-2KA51</b> <b>3SB31 11-2KA71</b>	102 102 102 102 102		
		 <p>Illuminated selector switch <b>nsd0084g</b></p>	 <p>Switching sequence O-I, non-latching (return from the right), 50° operating angle <b>nss 00438g</b></p>	<b>non-illuminated</b>	black red green white	B B B B	<b>3SB31 10-2LA11</b> <b>3SB31 10-2LA21</b> <b>3SB31 10-2LA41</b> <b>3SB31 10-2LA61</b>	102 102 102 102	5
<b>illuminated</b> incl. holder for 3 elements				red yellow green blue clear	B B B B B	<b>3SB31 11-2LA21</b> <b>3SB31 11-2LA31</b> <b>3SB31 11-2LA41</b> <b>3SB31 11-2LA51</b> <b>3SB31 11-2LA71</b>	102 102 102 102 102		
<b>Selector switches with 3 switching positions</b>									
 <p>Selector switch <b>nsd0085g</b></p>			 <p>Switching sequence I-O-II, latching, 2 x 50° operating angle <b>nss 00448g</b></p>	<b>non-illuminated</b>	black red green white	B B B B	<b>3SB31 10-2DA11</b> <b>3SB31 10-2DA21</b> <b>3SB31 10-2DA41</b> <b>3SB31 10-2DA61</b>	102 102 102 102	5
	<b>illuminated</b> incl. holder for 3 elements			red yellow green blue clear	B B B B B	<b>3SB31 11-2DA21</b> <b>3SB31 11-2DA31</b> <b>3SB31 11-2DA41</b> <b>3SB31 11-2DA51</b> <b>3SB31 11-2DA71</b>	102 102 102 102 102		
	 <p>Illuminated selector switch <b>nsd0085g</b></p>		 <p>Switching sequence I-O-II, non-latching (return from the right and left), 2 x 50° operating angle <b>nss 00445g</b></p>	<b>non-illuminated</b>	black red green white	B B B B	<b>3SB31 10-2EA11</b> <b>3SB31 10-2EA21</b> <b>3SB31 10-2EA41</b> <b>3SB31 10-2EA61</b>	102 102 102 102	5
		<b>illuminated</b> incl. holder for 3 elements		red yellow green blue clear	B B B B B	<b>3SB31 11-2EA21</b> <b>3SB31 11-2EA31</b> <b>3SB31 11-2EA41</b> <b>3SB31 11-2EA51</b> <b>3SB31 11-2EA71</b>	102 102 102 102 102		
		 <p>Illuminated selector switch <b>nsd0085g</b></p>	 <p>Switching sequence I-O-II, latching to the right, non-latching to the left (return from the left), 2 x 50° operating angle <b>nss 00446g</b></p>	<b>non-illuminated<sup>3)</sup></b>	black red green white	B B B B	<b>3SB31 10-2GA11</b> <b>3SB31 10-2GA21</b> <b>3SB31 10-2GA41</b> <b>3SB31 10-2GA61</b>	102 102 102 102	5
				<b>non-illuminated<sup>3)</sup></b>	black red green white	B B B B	<b>3SB31 10-2FA11</b> <b>3SB31 10-2FA21</b> <b>3SB31 10-2FA41</b> <b>3SB31 10-2FA61</b>	102 102 102 102	

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.

2) Inscription by inserting a label is possible.





3) Also available as illuminated selector switch. Append “-Z” to the order number and specify “illuminated selector switch” and the colour in plain text.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, □ Square Programme, 26 mm × 26 mm

### Key operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov- able in position	DT	Order No.	Price	PG	Weight approx.	Pack
						1 unit		kg	Unit
<i>including holder<sup>1)</sup></i>									
<b>Key operated switches with 2 keys and 2 switching positions</b>									
RONIS key operated switch  <b>nsd0086g</b>	○ Switching sequence O-I, latching, 50° operating angle  <b>nss 00444g</b>	RONIS SB 30 flat	O+I O I	B B B	<b>3SB31 10-4AD11</b> <b>3SB31 10-4AD01</b> <b>3SB31 10-4AD21</b>	102 102 102		0.075	1
		CES SSG 10	O+I O I	B B B	<b>3SB31 10-4LD11</b> <b>3SB31 10-4LD01</b> <b>3SB31 10-4LD21</b>	102 102 102		0.126	1
		LSG 1	O	B	<b>3SB31 10-4LF11</b>	102			
	IKON 360012 K1	O	B	<b>3SB31 10-5LD01</b>	102		0.131	1	
	BKS 1 NO	O+I O	B B	<b>3SB31 10-5AD11</b> <b>3SB31 10-5AD01</b>	102 102		0.126	1	
	E1 for VW <sup>2)</sup>	O+I	B	<b>3SB31 10-5AE01</b>	102				
	E2 for VW <sup>2)</sup>	O	B	<b>3SB31 10-5AE31</b>	102				
	E7 for VW <sup>2)</sup>	O+IO O	B B	<b>3SB31 10-5AE41</b> <b>3SB31 10-5AE51</b>	102 102				
	E9 for VW <sup>2)</sup>	O	B	<b>3SB31 10-5AE71</b>	102				
	O.M.R. <sup>3)</sup>	73038 light blue	O+I O	B B	<b>3SB31 10-3AG11</b> <b>3SB31 10-3AG01</b>	102 102		0.117	1
	73037 red	O+I O	B B	<b>3SB31 10-3AH11</b> <b>3SB31 10-3AH01</b>	102 102				
	73034 black	O+I O	B B	<b>3SB31 10-3AJ11</b> <b>3SB31 10-3AJ01</b>	102 102				
	73033 yellow	O+I O	B B	<b>3SB31 10-3AK11</b> <b>3SB31 10-3AK01</b>	102 102				
O.M.R. key operated switch  <b>nsd0088g</b>	○ Switching sequence O-I, non-latching (return from the right), 50° operating angle  <b>nss 00441g</b>	RONIS SB 30 flat	O	B	<b>3SB31 10-4BD01</b>	102		0.075	1
		CES SSG 10	O	B	<b>3SB31 10-4MD01</b>	102		0.126	1
		IKON 360012 K1	O	B	<b>3SB31 10-5MD01</b>	102		0.131	1
		BKS 1 NO	O	B	<b>3SB31 10-5BD01</b>	102		0.126	1
		O.M.R. <sup>3)</sup>	73034 black	O	B	<b>3SB31 10-3BJ01</b>	102		0.117

For special designs, see page 9/29.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.

2) Supplied without the key.








3) In accordance with FIAT car company standards, can also be used by other users.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, □ Square Programme, 26 mm × 26 mm

### Key operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov- able in position	DT	Order No.	Price	PG	Weight approx.	Pack
						1 unit		kg	Unit
<i>including holder<sup>1)</sup></i>									
<b>RONIS key operated switch</b>									
 <p><b>nsd0086g</b></p>	<b>Key operated switches with 2 keys and 3 switching positions</b>								
	 <p>Switching sequence I-O-II, latching, 2 x 50° operating angle <b>nss 00448g</b></p>	RONIS flat	SB 30	I+O+II O I+II	B B B	<b>3SB31 10-4DD11</b> <b>3SB31 10-4DD01</b> <b>3SB31 10-4DD41</b>	102 102 102	0.075	1
		CES	SSG 10	I+O+II O	B B	<b>3SB31 10-4PD11</b> <b>3SB31 10-4PD01</b>	102 102	0.126	1
		O.M.R. <sup>2)</sup>	73037 red	O	B	<b>3SB31 10-3DH01</b>	102	0.117	1
			73034 black	I+O+II O	B B	<b>3SB31 10-3DJ11</b> <b>3SB31 10-3DJ01</b>	102 102		
<b>CES key operated switch</b>									
 <p><b>nsd0566g</b></p>	 <p>Switching sequence I-O-II, non-latching (return from the right and left), 2 x 50° operating angle <b>nss 00445g</b></p>	RONIS flat	SB 30	O	B	<b>3SB31 10-4ED01</b>	102	0.075	1
		CES	SSG 10	O	B	<b>3SB31 10-4QD01</b>	102	0.126	1
		IKON	360012 K1	O	B	<b>3SB31 10-5QD01</b>	102	0.131	1
 <p><b>nsd0088g</b></p>	 <p>Switching sequence I-O-II, latching to the right, non-latching to the left (return from the left), 2 x 50° operating angle <b>nss 00446g</b></p>	CES	SSG 10	O	B	<b>3SB31 10-4SD01</b>	102	0.075	1
	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle <b>nss 00447g</b></p>	RONIS flat	SB 30	O	B	<b>3SB31 10-4FD01</b>	102	0.075	1
	CES	SSG 10	O+I	B	<b>3SB31 10-4RD51</b>	102	0.126	1	
	BKS	1 NO	I	B	<b>3SB31 10-5FD21</b>	102	0.126	1	

For special designs, see page 9/29.

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.








2) In accordance with FIAT car company standards, can also be used by other users.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, □ Square Programme, 26 mm × 26 mm


### EMERGENCY-STOP mushroom pushbuttons

#### Selection and ordering data

Version	Colour of actuator, key withdrawable in position	DT	Order No.	Price	PG	Weight approx.	Pack
				1 unit		kg	Unit
<i>EMERGENCY-STOP command devices according to EN 418, including holder<sup>1) 2)</sup>, can also be used with 3TK28 contactor safety combinations (see Section 8)</i>							
EMERGENCY-STOP mushroom pushbutton 	<b>Mushroom pushbutton, Ø 40 mm, with positive latching</b> unlatching when turned to the left	red		B	<b>3SB31 10-1HA20</b>	102 0.044	5
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with RONIS lock</b> Lock No. SB 30, supplied with 2 keys, unlatching only by using the key	red ON/OFF		B	<b>3SB31 10-1BA20</b>	102 0.1	1
EMERGENCY-STOP mushroom pushbutton with lock 	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with CES lock</b> Lock No. SSG 10, supplied with 2 keys, unlatching only by using the key	red ON/OFF		B	<b>3SB31 10-1KA20</b>	102 0.1	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with BKS lock</b> Lock No. S1, supplied with 2 keys, unlatching only by using the key	red ON/OFF		B	<b>3SB31 10-1LA20</b>	102 0.1	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. lock</b> Lock No. 73037, supplied with 2 keys, unlatching only by using the key	red ON/OFF		B	<b>3SB31 10-1MA20</b>	102 0.1	1

### Indicator lights

#### Selection and ordering data

Version	Colour of lens	DT	Order No.	Price	PG	Weight approx.	Pack
				1 unit		kg	Unit
Indicator light 	<b>Indicator light</b> <i>including holder<sup>1)</sup></i>			B	<b>3SB31 11-6AA20</b>	102 0.017	5
		red		B	<b>3SB31 11-6AA30</b>	102	
		yellow		B	<b>3SB31 11-6AA40</b>	102	
		green		B	<b>3SB31 11-6AA50</b>	102	
		blue		B	<b>3SB31 11-6AA60</b>	102	
		white		B	<b>3SB31 11-6AA70</b>	102	
	clear		B	<b>3SB31 11-6AA70</b>	102		

1) Also available without holder. When ordering, append “-Z” to the order number and specify code “B01”.




2) The yellow backing plate must be ordered separately; see page 9/57.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Complete units

#### Selection and ordering data

Version	Colour of actuator	Contacts for frontplate mounting	DT	Order No.	Price	PG	Weight approx.	Packs	
				▶ Preferred type	1 unit		kg	Unit	
Pushbutton unit with flat button <b>nsd0370g</b> 	<b>Pushbutton unit with flat button</b>	black	1 NO	▶ <b>3SB36 02-0AA11</b>		102	0.072	1	
		black	1 NC	B <b>3SB36 03-0AA11</b>		102			
		red	1 NC	▶ <b>3SB36 03-0AA21</b>		102			
		yellow	1 NO	B <b>3SB36 02-0AA31</b>		102			
		green	1 NO	▶ <b>3SB36 02-0AA41</b>		102			
		blue	1 NO	B <b>3SB36 02-0AA51</b>		102			
		white	1 NO	▶ <b>3SB36 02-0AA61</b>		102			
		black	1 NO + 1 NC	B <b>3SB36 01-0AA11</b>		102	0.081		
		red	1 NO + 1 NC	B <b>3SB36 01-0AA21</b>		102			
		yellow	1 NO + 1 NC	B <b>3SB36 01-0AA31</b>		102			
		green	1 NO + 1 NC	B <b>3SB36 01-0AA41</b>		102			
		blue	1 NO + 1 NC	B <b>3SB36 01-0AA51</b>		102			
		white	1 NO + 1 NC	B <b>3SB36 01-0AA61</b>		102			
	Illuminated pushbutton unit with flat button <b>nsd0371g</b> 	<b>Illuminated pushbutton units with flat button</b>							
		with integrated LED AC/DC 24 V	red <sup>1)</sup>	1 NC	▶ <b>3SB36 46-0AA21</b>		102	0.083	1
		yellow <sup>1)</sup>	1 NO	B <b>3SB36 45-0AA31</b>		102			
		green <sup>1)</sup>	1 NO	▶ <b>3SB36 45-0AA41</b>		102			
		blue <sup>1)</sup>	1 NO	B <b>3SB36 45-0AA51</b>		102			
		white	1 NO	B <b>3SB36 45-0AA61</b>		102			
		clear <sup>1)</sup>	1 NO	▶ <b>3SB36 45-0AA71</b>		102			
		red <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 47-0AA21</b>		102	0.09		
		yellow <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 47-0AA31</b>		102			
		green <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 47-0AA41</b>		102			
		blue <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 47-0AA51</b>		102			
		white	1 NO + 1 NC	B <b>3SB36 47-0AA61</b>		102			
		clear <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 47-0AA71</b>		102			
		red <sup>1)</sup>	1 NC	B <b>3SB36 50-0AA21</b>		102	0.083	1	
		yellow <sup>1)</sup>	1 NO	B <b>3SB36 57-0AA31</b>		102			
		green <sup>1)</sup>	1 NO	B <b>3SB36 57-0AA41</b>		102			
		blue <sup>1)</sup>	1 NO	B <b>3SB36 57-0AA51</b>		102			
		white	1 NO	B <b>3SB36 57-0AA61</b>		102			
		clear <sup>1)</sup>	1 NO	B <b>3SB36 57-0AA71</b>		102			
		red <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 51-0AA21</b>		102	0.09		
		yellow <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 51-0AA31</b>		102			
		green <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 51-0AA41</b>		102			
		blue <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 51-0AA51</b>		102			
		white	1 NO + 1 NC	B <b>3SB36 51-0AA61</b>		102			
	clear <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 51-0AA71</b>		102				
	red <sup>1)</sup>	1 NC	▶ <b>3SB36 54-0AA21</b>		102	0.083	1		
	yellow <sup>1)</sup>	1 NO	B <b>3SB36 53-0AA31</b>		102				
	green <sup>1)</sup>	1 NO	▶ <b>3SB36 53-0AA41</b>		102				
	blue <sup>1)</sup>	1 NO	B <b>3SB36 53-0AA51</b>		102				
	white	1 NO	B <b>3SB36 53-0AA61</b>		102				
	clear <sup>1)</sup>	1 NO	▶ <b>3SB36 53-0AA71</b>		102				
	red <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 55-0AA21</b>		102	0.09			
	yellow <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 55-0AA31</b>		102				
	green <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 55-0AA41</b>		102				
	blue <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 55-0AA51</b>		102				
	white	1 NO + 1 NC	B <b>3SB36 55-0AA61</b>		102				
	clear <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 55-0AA71</b>		102				
Mushroom push-pull button unit <b>nsd0372g</b> 	with BA 9s lampholder, without lamp	red <sup>1)</sup>	1 NC	B <b>3SB36 07-0AA21</b>		102	0.083	1	
		yellow <sup>1)</sup>	1 NO	B <b>3SB36 06-0AA31</b>		102			
		green <sup>1)</sup>	1 NO	B <b>3SB36 06-0AA41</b>		102			
		blue <sup>1)</sup>	1 NO	B <b>3SB36 06-0AA51</b>		102			
		white	1 NO	B <b>3SB36 06-0AA61</b>		102			
		clear <sup>1)</sup>	1 NO	B <b>3SB36 06-0AA71</b>		102			
		red <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 05-0AA21</b>		102	0.09		
		yellow <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 05-0AA31</b>		102			
		green <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 05-0AA41</b>		102			
		blue <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 05-0AA51</b>		102			
		white	1 NO + 1 NC	B <b>3SB36 05-0AA61</b>		102			
		clear <sup>1)</sup>	1 NO + 1 NC	B <b>3SB36 05-0AA71</b>		102			
		<b>Mushroom push-pull button unit, Ø 40 mm, latching</b>	red	1 NC	▶ <b>3SB36 03-1CA21</b>		102	0.091	1
		unlatching by pulling		1 NO + 1 NC	B <b>3SB36 01-1CA21</b>		102	0.100	










1) Inscription by inserting a label is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

Complete units

### Selection and ordering data

Version	Colour of actuator / Lock No.	Contacts for frontplate mounting	DT	Order No.	Price	PG	Weight approx.	Packs	
				Preferred type	1 unit		kg	Unit	
<b>Selector switch</b> nsd0373g 	<b>Selector switch, 2 positions</b> Switching sequence O-I, latching, 50° operating angle  nss 00439g	black, <b>Standard version</b>	1 NO 1 NO + 1 NC	▶ <b>3SB36 02-2KA11</b>		102	0.081	1	
		black, <b>heavy-duty version</b>	1 NO 1 NO + 1 NC	B <b>3SB36 01-2KA11</b> C <b>3SB36 02-2PA11</b> C <b>3SB36 01-2PA11</b>		102	0.090	1	
	<b>Selector switch, 3 positions</b> Switching sequence I-O-II, 2 x 50° operating angle latching  nss 00448g	black, <b>Standard version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ <b>3SB36 10-2DA11</b> ▶ <b>3SB36 08-2DA11</b>		102	0.091	1	
		black, <b>heavy-duty version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	C <b>3SB36 10-2SA11</b> C <b>3SB36 08-2SA11</b>		102	0.091	1	
		non-latching  nss 00445g	black, <b>Standard version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ <b>3SB36 10-2EA11</b> B <b>3SB36 08-2EA11</b>		102	0.091	1
			black, <b>heavy-duty version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	C <b>3SB36 10-2TA11</b> C <b>3SB36 08-2TA11</b>		102	0.091	1
<b>RONIS key-operated switch</b> nsd0374g 	<b>RONIS key-operated switch, flat, 2 switching positions</b> Switching sequence O-I, latching, with key (removable in any position), operating angle 50°  nss 00444g	SB 30	1 NO 1 NO + 1 NC	▶ <b>3SB36 02-4AD11</b> B <b>3SB36 01-4AD11</b>		102	0.104	1	
						102	0.113		
<b>Indicator light</b> nsd0375g 	<b>Indicator light with concentric rings</b> with integrated LED AC/DC 24 V	red		▶ <b>3SB36 44-6BA20</b>		102	0.073	1	
		yellow		B <b>3SB36 44-6BA30</b>		102			
		green		▶ <b>3SB36 44-6BA40</b>		102			
		blue		B <b>3SB36 44-6BA50</b>		102			
		white		B <b>3SB36 44-6BA60</b>		102			
	with integrated LED AC/DC 110 V	red		B <b>3SB36 48-6BA20</b>		102	0.080	1	
		yellow		B <b>3SB36 48-6BA30</b>		102			
		green		B <b>3SB36 48-6BA40</b>		102			
		blue		B <b>3SB36 48-6BA50</b>		102			
		white		B <b>3SB36 48-6BA60</b>		102			
<b>EMERGENCY-STOP mushroom pushbutton unit with safety lock</b> nsd0376g 	with integrated LED AC/DC 230 V	red		▶ <b>3SB36 52-6BA20</b>		102	0.080	1	
		yellow		B <b>3SB36 52-6BA30</b>		102			
		green		▶ <b>3SB36 52-6BA40</b>		102			
		blue		B <b>3SB36 52-6BA50</b>		102			
		white		B <b>3SB36 52-6BA60</b>		102			
	with lampholder BA 9s, without lamp	red		B <b>3SB36 04-6BA20</b>		102	0.068	1	
		yellow		B <b>3SB36 04-6BA30</b>		102			
		green		B <b>3SB36 04-6BA40</b>		102			
		blue		B <b>3SB36 04-6BA50</b>		102			
		white		B <b>3SB36 04-6BA60</b>		102			
<b>EMERGENCY-STOP mushroom pushbutton unit with turn unlatching mechanism</b> nsd0377g 	<b>Mushroom pushbutton unit, Ø 40 mm, with positive latching function,</b> with turn unlatching mechanism	red	1 NO	→ ▶ <b>3SB36 03-1HA20</b>		102	0.115	1	
			1 NO + 1 NC	→ B <b>3SB36 01-1HA20</b>		102	0.124		
	with unlocking device	red	1 NO	→ B <b>3SB36 03-1TA20</b>		102	0.116	1	
			1 NO + 1 NC	→ B <b>3SB36 01-1TA20</b>		102	0.125		








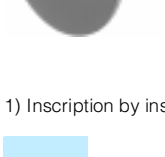

→ Positive opening acc. to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Pushbuttons and switches

#### Selection and ordering data

Version	Colour of actuator	Inscription	DT	Order No.	Price	PG	Weight approx.	Packs
				▶ Preferred type	1 unit		kg	Unit
<i>including holder</i>								
Pushbutton with flat button 	<b>Pushbutton with flat button</b>	black		▶ 3SB35 00-0AA11		102	0.062	5
		red		▶ 3SB35 00-0AA21		102		
		yellow		B 3SB35 00-0AA31		102		
		green		▶ 3SB35 00-0AA41		102		
		blue		B 3SB35 00-0AA51		102		
		white		▶ 3SB35 00-0AA61		102		
		grey clear <sup>1)</sup>		▶ 3SB35 00-0AB51		102		
				B 3SB35 00-0AA71		102		
Pushbutton with raised button 	<b>Pushbutton with raised button</b>	green	Inscription I	B 3SB35 00-0AA81		102	0.063	5
		red	Inscription O	B 3SB35 00-0AB01		102		
		white	Inscription I	B 3SB35 00-0AB11		102		
		black	Inscription O	B 3SB35 00-0AB21		102		
						B 3SB35 00-0BA11		
Pushbutton with raised front ring (Height 15.5 mm) 	<b>Pushbutton with raised front-ring</b>	black		B 3SB35 00-0AA12		102	0.067	5
		red		B 3SB35 00-0AA22		102		
		yellow		B 3SB35 00-0AA32		102		
		green		B 3SB35 00-0AA42		102		
		blue		B 3SB35 00-0AA52		102		
white		B 3SB35 00-0AA62		102				
Illuminated pushbutton with flat button 	<b>Illuminated pushbutton with flat button</b>	red <sup>1)</sup>		▶ 3SB35 01-0AA21		102	0.064	5
		yellow <sup>1)</sup>		B 3SB35 01-0AA31		102		
		green <sup>1)</sup>		▶ 3SB35 01-0AA41		102		
		blue <sup>1)</sup>		B 3SB35 01-0AA51		102		
		white		B 3SB35 01-0AA61		102		
		clear <sup>1)</sup>		▶ 3SB35 01-0AA71		102		
Illuminated pushbutton with raised button 	<b>Illuminated pushbutton with raised button</b>	red		B 3SB35 01-0BA21		102	0.065	5
		yellow		B 3SB35 01-0BA31		102		
		green		B 3SB35 01-0BA41		102		
		blue		B 3SB35 01-0BA51		102		
		clear		B 3SB35 01-0BA71		102		
						B 3SB35 00-0DA11		
Pushbutton switch, latching, with flat button unlatching by pressing again 	<b>Pushbutton switch, latching, with flat button</b>	black		B 3SB35 00-0DA21		102	0.062	5
		red		B 3SB35 00-0DA31		102		
		yellow		B 3SB35 00-0DA41		102		
		green		B 3SB35 00-0DA51		102		
		blue		B 3SB35 00-0DA61		102		
		white		B 3SB35 00-0DA71		102		
		grey		B 3SB35 00-0DB51		102		
Mushroom pushbutton, Ø 30 mm 	<b>Illuminated mushroom pushbutton switch, latching, with flat button</b>	red <sup>1)</sup>		B 3SB35 01-0DA21		102	0.062	5
		yellow <sup>1)</sup>		B 3SB35 01-0DA31		102		
		green <sup>1)</sup>		B 3SB35 01-0DA41		102		
		blue <sup>1)</sup>		B 3SB35 01-0DA51		102		
		white		B 3SB35 01-0DA61		102		
		clear <sup>1)</sup>		B 3SB35 01-0DA71		102		
						B 3SB35 00-1DA11		
Mushroom pushbutton, Ø 40 mm 	<b>Mushroom pushbutton, Ø 40 mm</b>	black		B 3SB35 00-1DA21		102	0.075	5
		red		B 3SB35 00-1DA31		102		
		yellow		B 3SB35 00-1DA41		102		
		green		B 3SB35 00-1DA51		102		
Mushroom pushbutton, Ø 40 mm 	<b>Mushroom pushbutton, Ø 40 mm</b>	black		▶ 3SB35 00-1GA11		102	0.080	5
		red		▶ 3SB35 00-1GA21		102		
		yellow		B 3SB35 00-1GA31		102		
		green		B 3SB35 00-1GA41		102		

1) Inscription by inserting a label is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Pushbuttons and switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Packs
			▶ Preferred type	1 unit		kg	Unit
Illuminated mushroom pushbutton, Ø 60 mm  nsd0386g	<b>Mushroom pushbutton, Ø 60 mm</b> black red yellow green	B	<b>3SB35 00-1QA11</b>		102	0.079	5
		B	<b>3SB35 00-1QA21</b>		102		
		B	<b>3SB35 00-1QA31</b>		102		
		B	<b>3SB35 00-1QA41</b>		102		
<b>Mushroom pushbutton, Ø 30 mm</b> incl. holder for 3 elements yellow green white	B	<b>3SB35 01-1DA31</b>		102	0.077	5	
	B	<b>3SB35 01-1DA41</b>		102			
	B	<b>3SB35 01-1DA61</b>		102			
<b>Mushroom pushbutton, Ø 40 mm</b> incl. holder for 3 elements yellow green white	B	<b>3SB35 01-1GA31</b>		102	0.082	5	
	B	<b>3SB35 01-1GA41</b>		102			
	B	<b>3SB35 01-1GA61</b>		102			
<b>Mushroom pushbutton, Ø 60 mm</b> incl. holder for 3 elements yellow green white	B	<b>3SB35 01-1QA31</b>		102	0.081	5	
	B	<b>3SB35 01-1QA41</b>		102			
	B	<b>3SB35 01-1QA61</b>		102			
Push-pull button, Ø 30 mm, latching unlatching by pulling  nsd0383g	black red <sup>1)</sup>	B	<b>3SB35 00-1EA11</b>		102	0.076	5
		B	<b>3SB35 00-1EA21</b>		102		
<b>Push-pull button, Ø 40 mm, latching</b> unlatching by pulling black red <sup>1)</sup>	▶	<b>3SB35 00-1CA11</b>		102	0.081	5	
	▶	<b>3SB35 00-1CA21</b>		102			
Push-pull button, Ø 60 mm, latching unlatching by pulling black red <sup>1)</sup>	B	<b>3SB35 00-1RA11</b>		102	0.080	5	
	B	<b>3SB35 00-1RA21</b>		102			
<b>Push-pull button, Ø 30 mm, latching, can be illuminated</b> incl. holder for 3 elements, unlatching by pulling red yellow green blue clear	B	<b>3SB35 01-1EA21</b>		102	0.078	5	
	B	<b>3SB35 01-1EA31</b>		102			
	B	<b>3SB35 01-1EA41</b>		102			
	B	<b>3SB35 01-1EA51</b>		102			
	B	<b>3SB35 01-1EA71</b>		102			
<b>Push-pull button, Ø 40 mm, latching, can be illuminated</b> incl. holder for 3 elements, unlatching by pulling red yellow green blue clear	B	<b>3SB35 01-1CA21</b>		102	0.083	5	
	B	<b>3SB35 01-1CA31</b>		102			
	B	<b>3SB35 01-1CA41</b>		102			
	B	<b>3SB35 01-1CA51</b>		102			
	B	<b>3SB35 01-1CA71</b>		102			
<b>Push-pull button, Ø 60 mm, latching, can be illuminated</b> incl. holder for 3 elements, unlatching by pulling red yellow green blue clear	B	<b>3SB35 01-1RA21</b>		102	0.082	5	
	B	<b>3SB35 01-1RA31</b>		102			
	B	<b>3SB35 01-1RA41</b>		102			
	B	<b>3SB35 01-1RA51</b>		102			
	B	<b>3SB35 01-1RA71</b>		102			



1) Maximum permissible fittings: 3 single pole or 2 double-pole contact elements. When using the 3SB39 01-0AB holder, the central command position must not be empty.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Selector switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Packs		
			▶ Preferred type	1 unit		kg	Unit		
<i>including holder</i>									
Selector switch, 2 switching positions, standard version  <i>nss00440g</i>	 Switching sequence O-I, latching, 90° operating angle <i>nss 00440g</i>	<b>non-illuminated, standard version</b> black red green white	▶ <b>3SB35 00-2HA11</b>		102	0.071	5		
			B <b>3SB35 00-2HA21</b>		102				
			B <b>3SB35 00-2HA41</b>		102				
			B <b>3SB35 00-2HA61</b>		102				
Selector switch, 2 switching positions, heavy-duty version  <i>nss00439g</i>	 Switching sequence O-I, latching, 50° operating angle <i>nss 00439g</i>	<b>non-illuminated, standard version</b> black red green white	▶ <b>3SB35 00-2KA11</b>		102	0.071	5		
			B <b>3SB35 00-2KA21</b>		102				
			B <b>3SB35 00-2KA41</b>		102				
			B <b>3SB35 00-2KA61</b>		102				
Selector switch, 2 switching positions, long handle  <i>nss00570g</i>	 Switching sequence O-I, non-latching (return from the right), 50° operating angle <i>nss 00438g</i>	<b>illuminated, standard version,</b> incl. holder for 3 elements red yellow green blue clear	B <b>3SB35 01-2KA21</b>		102	0.073	5		
			B <b>3SB35 01-2KA31</b>		102				
			B <b>3SB35 01-2KA41</b>		102				
			B <b>3SB35 01-2KA51</b>		102				
			B <b>3SB35 01-2KA71</b>		102				
			<b>non-illuminated, heavy-duty version</b> black red green white	C <b>3SB35 00-2PA11</b>		102	0.081	1	
				C <b>3SB35 00-2PA21</b>		102			
				C <b>3SB35 00-2PA41</b>		102			
						C <b>3SB35 00-2PA61</b>		102	
			<b>illuminated, heavy-duty version,</b> incl. holder for 3 elements red yellow green blue clear	C <b>3SB35 01-2PA21</b>		102	0.081	1	
				C <b>3SB35 01-2PA31</b>		102			
				C <b>3SB35 01-2PA41</b>		102			
			C <b>3SB35 01-2PA51</b>		102				
			C <b>3SB35 01-2PA71</b>		102				
<b>non-illuminated, long handle</b> black red green white	C <b>3SB35 00-3PA11</b>		102	0.081	1				
	C <b>3SB35 00-3PA21</b>		102						
	C <b>3SB35 00-3PA41</b>		102						
			C <b>3SB35 00-3PA61</b>		102				
<b>illuminated, long handle,</b> incl. holder for 3 elements red yellow green blue clear	C <b>3SB35 01-3PA21</b>		102	0.081	1				
	C <b>3SB35 01-3PA31</b>		102						
	C <b>3SB35 01-3PA41</b>		102						
			C <b>3SB35 01-3PA51</b>		102				
			C <b>3SB35 01-3PA71</b>		102				
<b>non-illuminated, standard version</b> black red green white	▶ B <b>3SB35 00-2LA11</b>		102	0.071	5				
	B <b>3SB35 00-2LA21</b>		102						
	B <b>3SB35 00-2LA41</b>		102						
	B <b>3SB35 00-2LA61</b>		102						
<b>illuminated, standard version,</b> incl. holder for 3 elements red yellow green blue clear	B <b>3SB35 01-2LA21</b>		102	0.073	5				
	B <b>3SB35 01-2LA31</b>		102						
	B <b>3SB35 01-2LA41</b>		102						
	B <b>3SB35 01-2LA51</b>		102						
			B <b>3SB35 01-2LA71</b>		102				
<b>non-illuminated, heavy-duty version</b> black red green white	C <b>3SB35 00-2QA11</b>		102	0.081	1				
	C <b>3SB35 00-2QA21</b>		102						
	C <b>3SB35 00-2QA41</b>		102						
	C <b>3SB35 00-2QA61</b>		102						
<b>illuminated, heavy-duty version,</b> incl. holder for 3 elements red yellow green blue clear	C <b>3SB35 01-2QA21</b>		102	0.081	1				
	C <b>3SB35 01-2QA31</b>		102						
	C <b>3SB35 01-2QA41</b>		102						
	C <b>3SB35 01-2QA51</b>		102						
			C <b>3SB35 01-2QA71</b>		102				
<b>non-illuminated, long handle</b> black red green white	C <b>3SB35 00-3QA11</b>		102	0.081	1				
	C <b>3SB35 00-3QA21</b>		102						
	C <b>3SB35 00-3QA41</b>		102						
			C <b>3SB35 00-3QA61</b>		102				
<b>illuminated, long handle,</b> incl. holder for 3 elements red yellow green blue clear	C <b>3SB35 01-3QA21</b>		102	0.081	1				
	C <b>3SB35 01-3QA31</b>		102						
	C <b>3SB35 01-3QA41</b>		102						
	C <b>3SB35 01-3QA51</b>		102						
			C <b>3SB35 01-3QA71</b>		102				

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

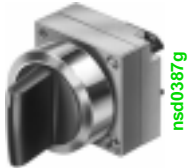
### Selector switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Packs
			▶ Preferred type	1 unit		kg	Unit

#### including holder

Selector switch, 3 switching positions, standard version



#### Selector switches with 3 switching positions

Switching sequence I-O-II, latching, 2 × 50° operating angle

nss  
00448g

**non-illuminated, standard version**

black  
red  
green  
white

▶ **3SB35 00-2DA11**  
B **3SB35 00-2DA21**  
B **3SB35 00-2DA41**  
B **3SB35 00-2DA61**

102  
102  
102  
102

0.071 5

**illuminated, standard version,**

red  
yellow  
green  
blue  
clear

incl. holder for 3 elements

B **3SB35 01-2DA21**  
B **3SB35 01-2DA31**  
B **3SB35 01-2DA41**  
B **3SB35 01-2DA51**  
B **3SB35 01-2DA71**

102  
102  
102  
102  
102

0.073 5

**non-illuminated, heavy-duty version**

black  
red  
green  
white

C **3SB35 00-2SA11**  
C **3SB35 00-2SA21**  
C **3SB35 00-2SA41**  
C **3SB35 00-2SA61**

102  
102  
102  
102

0.081 1

**illuminated, heavy-duty version,**

red  
yellow  
green  
blue  
clear

incl. holder for 3 elements

C **3SB35 01-2SA21**  
C **3SB35 01-2SA31**  
C **3SB35 01-2SA41**  
C **3SB35 01-2SA51**  
C **3SB35 01-2SA71**

102  
102  
102  
102  
102

0.081 1

**non-illuminated, long handle**

black  
red  
green  
white

C **3SB35 00-3SA11**  
C **3SB35 00-3SA21**  
C **3SB35 00-3SA41**  
C **3SB35 00-3SA61**

102  
102  
102  
102

0.081 1

**illuminated, long handle,**

red  
yellow  
green  
blue  
clear

incl. holder for 3 elements

C **3SB35 01-3SA21**  
C **3SB35 01-3SA31**  
C **3SB35 01-3SA41**  
C **3SB35 01-3SA51**  
C **3SB35 01-3SA71**

102  
102  
102  
102  
102

0.081 1

Selector switch, 3 switching positions, heavy-duty version



nsd0569g

Switching sequence I-O-II, non-latching, (return from the right and left), 2 × 50° operating angle

nss  
00445g

**non-illuminated, standard version**

black  
red  
green  
white

▶ **3SB35 00-2EA11**  
B **3SB35 00-2EA21**  
B **3SB35 00-2EA41**  
B **3SB35 00-2EA61**

102  
102  
102  
102

0.071 5

**illuminated, standard version,**

red  
yellow  
green  
blue  
clear

incl. holder for 3 elements

B **3SB35 01-2EA21**  
B **3SB35 01-2EA31**  
B **3SB35 01-2EA41**  
B **3SB35 01-2EA51**  
B **3SB35 01-2EA71**

102  
102  
102  
102  
102

0.073 5

**non-illuminated, heavy-duty version**

black  
red  
green  
white

C **3SB35 00-2TA11**  
C **3SB35 00-2TA21**  
C **3SB35 00-2TA41**  
C **3SB35 00-2TA61**

102  
102  
102  
102

0.081 1

**illuminated, heavy-duty version,**

red  
yellow  
green  
blue  
clear

incl. holder for 3 elements

C **3SB35 01-2TA21**  
C **3SB35 01-2TA31**  
C **3SB35 01-2TA41**  
C **3SB35 01-2TA51**  
C **3SB35 01-2TA71**

102  
102  
102  
102  
102

0.081 1

**non-illuminated, long handle**

black  
red  
green  
white

C **3SB35 00-3TA11**  
C **3SB35 00-3TA21**  
C **3SB35 00-3TA41**  
C **3SB35 00-3TA61**

102  
102  
102  
102

0.081 1

**illuminated, long handle,**

red  
yellow  
green  
blue  
clear

incl. holder for 3 elements

C **3SB35 01-3TA21**  
X **3SB35 01-3TA31**  
C **3SB35 01-3TA41**  
C **3SB35 01-3TA51**  
C **3SB35 01-3TA71**

102  
102  
102  
102  
102





0.081 1

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Selector switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Packs		
				1 unit		kg	Unit		
<i>including holder</i>									
Selector switch, 3 switching positions, standard version  nss0387g	<b>Selector switches with 3 switching positions</b>								
	 nss00446g	<b>non-illuminated, standard version<sup>1)</sup></b>	black red green white	B B B B	<b>3SB35 00-2GA11</b> <b>3SB35 00-2GA21</b> <b>3SB35 00-2GA41</b> <b>3SB35 00-2GA61</b>	102 102 102 102	0.071	5	
		<b>non-illuminated, heavy-duty version</b>	black red green white	C C C C	<b>3SB35 00-2VA11</b> <b>3SB35 00-2VA21</b> <b>3SB35 00-2VA41</b> <b>3SB35 00-2VA61</b>	102 102 102 102	0.081	1	
		<b>non-illuminated, long handle</b>	black red green white	C C C C	<b>3SB35 00-3VA11</b> <b>3SB35 00-3VA21</b> <b>3SB35 00-3VA41</b> <b>3SB35 00-3VA61</b>	102 102 102 102	0.081	1	
	Selector switch, 3 switching positions, heavy-duty version  nss0569g	 nss00447g	<b>non-illuminated, standard version<sup>1)</sup></b>	black red green white	B B B B	<b>3SB35 00-2FA11</b> <b>3SB35 00-2FA21</b> <b>3SB35 00-2FA41</b> <b>3SB35 00-2FA61</b>	102 102 102 102	0.071	5
			<b>non-illuminated, heavy-duty version</b>	black red green white	C C C C	<b>3SB35 00-2UA11</b> <b>3SB35 00-2UA21</b> <b>3SB35 00-2UA41</b> <b>3SB35 00-2UA61</b>	102 102 102 102	0.081	1
			<b>non-illuminated, long handle</b>	black red green white	C C C C	<b>3SB35 00-3UA11</b> <b>3SB35 00-3UA21</b> <b>3SB35 00-3UA41</b> <b>3SB35 00-3UA61</b>	102 102 102 102	0.081	1







1) Also available as illuminated selector switch. When ordering, add “-Z” to the order number and indicate “illuminated selector switch” and the colour in plain text.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Key-operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov-able in position	DT	Order No.	Price	PG	Weight approx.	Packs	
					▶ Preferred type	1 unit		kg	Unit	
<i>including holder</i>										
<b>Key-operated switch with 2 keys, 2 switching positions</b>										
RONIS key-operated switch  <b>nsd0388g</b>	○ Switching sequence O-I, latching, 50° operating angle  <b>nss 00444g</b>	RONIS SB 30 flat	O+I O I	▶ B ▶ B	<b>3SB35 00-4AD11</b> <b>3SB35 00-4AD01</b> <b>3SB35 00-4AD21</b>	102 102 102		0.094	1	
		CES SSG 10	O+I O I	▶ B ▶ B	<b>3SB35 00-4LD11</b> <b>3SB35 00-4LD01</b> <b>3SB35 00-4LD21</b>	102 102 102		0.175	1	
		LSG 1	O+I O B	B B	<b>3SB35 00-4LF01</b> <b>3SB35 00-4LF11</b>	102 102				
	CES key-operated switch  <b>nsd0572g</b>		IKON 360012 K1	O+I O B	B B	<b>3SB35 00-5LD11</b> <b>3SB35 00-5LD01</b>	102 102		0.180	1
			BKS 1 NO	O+I O I	B B B	<b>3SB35 00-5AD11</b> <b>3SB35 00-5AD01</b> <b>3SB35 00-5AD21</b>	102 102 102		0.175	1
			E1 for VW <sup>1)</sup>	O+I O B	B B	<b>3SB35 00-5AE01</b> <b>3SB35 00-5AE11</b>	102 102			
			E2 for VW <sup>1)</sup>	O+I O B	B B	<b>3SB35 00-5AE21</b> <b>3SB35 00-5AE31</b>	102 102			
			E7 for VW <sup>1)</sup>	O+I O B	B B	<b>3SB35 00-5AE41</b> <b>3SB35 00-5AE51</b>	102 102			
			E9 for VW <sup>1)</sup>	O+I O B	B B	<b>3SB35 00-5AE61</b> <b>3SB35 00-5AE71</b>	102 102			
			O.M.R. <sup>2)</sup> 73038 light blue	O+I O I	B B B	<b>3SB35 00-3AG11</b> <b>3SB35 00-3AG01</b> <b>3SB35 00-3AG21</b>	102 102 102		0.165	1
			73037 red	O+I O I	B B B	<b>3SB35 00-3AH11</b> <b>3SB35 00-3AH01</b> <b>3SB35 00-3AH21</b>	102 102 102			
			73034 black	O+I O I	B B B	<b>3SB35 00-3AJ11</b> <b>3SB35 00-3AJ01</b> <b>3SB35 00-3AJ21</b>	102 102 102			
73033 yellow			O+I O I	B B B	<b>3SB35 00-3AK11</b> <b>3SB35 00-3AK01</b> <b>3SB35 00-3AK21</b>	102 102 102				
IKON key-operated switch  <b>nsd0573g</b>		RONIS SB 30 flat	O O	▶ B	<b>3SB35 00-4BD01</b>	102		0.094	1	
		CES SSG 10	O	▶ B	<b>3SB35 00-4MD01</b>	102		0.175	1	
		LSG 1	O	B	<b>3SB35 00-4MF11</b>	102				
		IKON 360012 K1	O	B	<b>3SB35 00-5MD01</b>	102		0.180	1	
		BKS 1 NO	O	B	<b>3SB35 00-5BD01</b>	102		0.175	1	
		O.M.R. <sup>2)</sup> 73038 light blue	O	B	<b>3SB35 00-3BG01</b>	102		0.165	1	
BKS key-operated switch  <b>nsd0574g</b>		73037 red	O	B	<b>3SB35 00-3BH01</b>	102				
		73034 black	O	B	<b>3SB35 00-3BJ01</b>	102				
		73033 yellow	O	B	<b>3SB35 00-3BK01</b>	102				
		O.M.R. <sup>2)</sup> 73038 light blue	O	B	<b>3SB35 00-3BG01</b>	102		0.165	1	
O.M.R. key-operated switch  <b>nsd0392g</b>		73037 red	O	B	<b>3SB35 00-3BH01</b>	102				
		73034 black	O	B	<b>3SB35 00-3BJ01</b>	102				
		73033 yellow	O	B	<b>3SB35 00-3BK01</b>	102				
		O.M.R. <sup>2)</sup> 73038 light blue	O	B	<b>3SB35 00-3BG01</b>	102		0.165	1	

For special designs, see page 9/29.

1) Supplied without key.


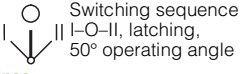
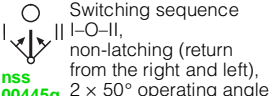

2) In accordance with FIAT car company standards, can also be used by other users.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Key-operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov- able in position	DT	Order No.	Price 1 unit	PG	Weight approx. kg	Packs Unit
<i>including holder</i>									
RONIS key-operated switch	<b>Key-operated switch with 2 keys, 3 switching positions</b>								
		RONIS flat	SB 30	O+I+II O I+II	B B B	<b>3SB35 00-4DD11</b> <b>3SB35 00-4DD01</b> <b>3SB35 00-4DD41</b>	102 102 102	0.094	1
<b>nsd0388g</b>	<b>nss 00448g</b>			I II O+I	B B B	<b>3SB35 00-4DD21</b> <b>3SB35 00-4DD31</b> <b>3SB35 00-4DD51</b>	102 102 102		
CES key-operated switch		CES	SSG 10	O+I+II O I+II	B B B	<b>3SB35 00-4PD11</b> <b>3SB35 00-4PD01</b> <b>3SB35 00-4PD41</b>	102 102 102	0.175	1
				I II	B B	<b>3SB35 00-4PD21</b> <b>3SB35 00-4PD31</b>	102 102		
		IKON	360012 K1	O+I+II O I+II	B B B	<b>3SB35 00-5PD11</b> <b>3SB35 00-5PD01</b> <b>3SB35 00-5PD41</b>	102 102 102	0.180	1
		BKS	1 NO	O+I+II O I+II	B B B	<b>3SB35 00-5DD11</b> <b>3SB35 00-5DD01</b> <b>3SB35 00-5DD41</b>	102 102 102	0.175	1
				I II	B B	<b>3SB35 00-5DD21</b> <b>3SB35 00-5DD31</b>	102 102		
IKON key-operated switch		O.M.R. 1)	73038 light blue	I+O+II O I+II	B B B	<b>3SB35 00-3DG11</b> <b>3SB35 00-3DG01</b> <b>3SB35 00-3DG41</b>	102 102 102	0.165	1
			73037 red	I+O+II O I+II	B B B	<b>3SB35 00-3DH11</b> <b>3SB35 00-3DH01</b> <b>3SB35 00-3DH41</b>	102 102 102		
			73034 black	I+O+II O I+II	B B B	<b>3SB35 00-3DJ11</b> <b>3SB35 00-3DJ01</b> <b>3SB35 00-3DJ41</b>	102 102 102		
			73033 yellow	I+O+II O I+II	B B B	<b>3SB35 00-3DK11</b> <b>3SB35 00-3DK01</b> <b>3SB35 00-3DK41</b>	102 102 102		
BKS key-operated switch		RONIS flat	SB 30	O	B	<b>3SB35 00-4ED01</b>	102	0.094	1
	<b>nss 00445g</b>	ES	SSG 10	O	B	<b>3SB35 00-4QD01</b>	102	0.175	1
		IKON	360012 K1	O	B	<b>3SB35 00-5QD01</b>	102	0.180	1
		BKS	1 NO	O	B	<b>3SB35 00-5ED01</b>	102	0.175	1
		O.M.R. 1)	73038 light blue	O	B	<b>3SB35 00-3EG01</b>	102	0.165	1
			73037 red	O	B	<b>3SB35 00-3EH01</b>	102		
			73034 black	O	B	<b>3SB35 00-3EJ01</b>	102		
			73033 yellow	O	B	<b>3SB35 00-3EK01</b>	102		
O.M.R. key-operated switch									
									
<b>nsd0392g</b>									

For special designs, see page 9/29.


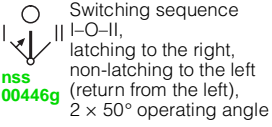

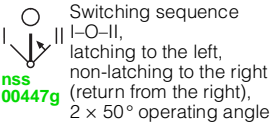














1) In accordance with FIAT car company standards; can also be used by other users.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm

### Key-operated switches

#### Selection and ordering data

Version	Type	Lock No./ colour	Key remov- able in position	DT	Order No.	Price	PG	Weight approx.	Packs	
						1 unit		kg	Unit	
<i>including holder</i>										
<b>Key-operated switch with 2 keys, 3 switching positions</b>										
RONIS key-operated switch  nsd0388g	 <p>Switching sequence I-O-II, latching to the right, non-latching to the left (return from the left), 2 x 50° operating angle</p>	RONIS	SB 30	O+II	B	<b>3SB35 00-4GD61</b>	102	0.094	1	
			flat	O	B	<b>3SB35 00-4GD01</b>	102			
				II	B	<b>3SB35 00-4GD31</b>	102			
CES key-operated switch  nsd0572g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	CES	SSG 10	O+II	B	<b>3SB35 00-4SD61</b>	102	0.175	1	
				O	B	<b>3SB35 00-4SD01</b>	102			
				II	B	<b>3SB35 00-4SD31</b>	102			
IKON key-operated switch  nsd0573g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	IKON	360012 K1	O	B	<b>3SB35 00-5SD01</b>	102	0.180	1	
				II	B	<b>3SB35 00-5SD31</b>	102			
		BKS	1 NO	O+II	B	<b>3SB35 00-5GD61</b>	102	0.175	1	
				O	B	<b>3SB35 00-5GD01</b>	102			
				II	B	<b>3SB35 00-5GD31</b>	102			
BKS key-operated switch  nsd0574g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	O.M.R.	73038	O	B	<b>3SB35 00-3GG01</b>	102	0.165	1	
			light blue	II	B	<b>3SB35 00-3GG31</b>	102			
			73037	O	B	<b>3SB35 00-3GH01</b>	102			
			red	II	B	<b>3SB35 00-3GH31</b>	102			
			73034	O	B	<b>3SB35 00-3GJ01</b>	102			
O.M.R. key-operated switch  nsd0392g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>		black	II	B	<b>3SB35 00-3GJ31</b>	102			
			73033	O	B	<b>3SB35 00-3GK01</b>	102			
			yellow	II	B	<b>3SB35 00-3GK31</b>	102			
			RONIS	SB 30	O+I	B	<b>3SB35 00-4FD51</b>	102	0.094	1
			flat	O	B	<b>3SB35 00-4FD01</b>	102			
		I	B	<b>3SB35 00-4FD21</b>	102					
IKON key-operated switch  nsd0573g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	CES	SSG 10	O+I	B	<b>3SB35 00-4RD51</b>	102	0.175	1	
				O	B	<b>3SB35 00-4RD01</b>	102			
				I	B	<b>3SB35 00-4RD21</b>	102			
IKON key-operated switch  nsd0573g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	IKON	360012 K1	O+I	B	<b>3SB35 00-5RD51</b>	102	0.180	1	
				O	B	<b>3SB35 00-5RD01</b>	102			
				I	B	<b>3SB35 00-5RD21</b>	102			
BKS key-operated switch  nsd0574g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	BKS	1 NO	O+I	B	<b>3SB35 00-5FD51</b>	102	0.175	1	
				O	B	<b>3SB35 00-5FD01</b>	102			
				I	B	<b>3SB35 00-5FD21</b>	102			
O.M.R. key-operated switch  nsd0392g	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 x 50° operating angle</p>	O.M.R.	73038	O	B	<b>3SB35 00-3FG01</b>	102	0.165	1	
			light blue	I	B	<b>3SB35 00-3FG21</b>	102			
			73037	O	B	<b>3SB35 00-3FH01</b>	102			
			red	I	B	<b>3SB35 00-3FH21</b>	102			
			73034	O	B	<b>3SB35 00-3FJ01</b>	102			
	black	I	B	<b>3SB35 00-3FJ21</b>	102					
	73033	O	B	<b>3SB35 00-3FK01</b>	102					
	yellow	I	B	<b>3SB35 00-3FK21</b>	102					




For special designs, see page 9/29.

# Pushbutton Units and Indicator Lights

## SIGNUM Metallic 3SB3, ○ Round Programme, 22 mm


### EMERGENCY-STOP mushroom pushbuttons

#### Selection and ordering data

Version	Colour of actuator/ key removable in position	DT	Order No.	Price	PG	Weight approx.	Packs
		▶	Preferred type	1 unit		kg	Unit
<b>EMERGENCY-STOP command devices according to EN 418, including holder<sup>1)</sup>, can also be used with 3TK28 contactor safety combinations (see Section 8)</b>							
EMERGENCY-STOP mushroom pushbutton, unlocking by turning  <b>nsd0393g</b>	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function</b> red unlocking by turning the knob to the left unlocking by pulling	▶	<b>3SB35 00-1HA20</b>		102	0.105	5
		B	<b>3SB35 00-1TA20</b>		102	0.106	5
		B	<b>3SB35 00-1BA20</b>		102	0.110	1
EMERGENCY-STOP mushroom pushbutton, unlocking by pulling  <b>nsd0394g</b>	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with RONIS lock</b> red ON/OFF Lock No. SB30, supplied with 2 keys, unlocking only possible using key	B	<b>3SB35 00-1KA20</b>		102	0.190	1
		B	<b>3SB35 00-1UA20</b>		102	0.190	1
EMERGENCY-STOP mushroom pushbutton with lock  <b>nsd0395g</b>	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with IKON lock</b> red ON/OFF Lock No. 360012K1, supplied with 2 keys, unlocking only possible using key	B	<b>3SB35 00-1LA20</b>		102	0.190	1
		B	<b>3SB35 00-1MA20</b>		102	0.190	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with BKS lock</b> red ON/OFF Lock No. S1, supplied with 2 keys, unlocking only possible using key	B	<b>3SB35 00-1LA20</b>		102	0.190	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. lock</b> red ON/OFF Lock No. 73037, supplied with 2 keys, unlocking only possible using key	B	<b>3SB35 00-1MA20</b>		102	0.190	1

### Indicator lights

#### Selection and ordering data

Version	Colour of lens	DT	Order No.	Price	PG	Weight approx.	Packs
		▶	Preferred type	1 unit		kg	Unit
<b>including holder</b>							
Indicator light, smooth  <b>nsd0396g</b>	<b>Indicator light with concentric rings</b> red yellow green	▶	<b>3SB35 01-6BA20</b>		102	0.055	5
		B	<b>3SB35 01-6BA30</b>		102		
		▶	<b>3SB35 01-6BA40</b>		102		
	<b>Indicator light, smooth</b> blue white clear	B	<b>3SB35 01-6BA50</b>		102		
		B	<b>3SB35 01-6BA60</b>		102		
		▶	<b>3SB35 01-6BA70</b>		102		
<b>Indicator light, smooth</b> red yellow green blue white clear	B	<b>3SB35 01-6AA20</b>		102			
	B	<b>3SB35 01-6AA30</b>		102			
	B	<b>3SB35 01-6AA40</b>		102			
	B	<b>3SB35 01-6AA50</b>		102			
	B	<b>3SB35 01-6AA60</b>		102			

1) The yellow backing plate must be ordered separately; see page 9/57.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ □ Round and Square Programme

### Contact blocks and lampholders

#### Selection and ordering data

Version	Symbols/ LED colour	Contact travel	DT	Order No.	Price	PG	Weight approx.	Packs
		 contact closed contact open	▶ Preferred type	1 unit		kg	Unit	
<b>with screw terminals, for front plate mounting</b>								
Contact block with 1 contact   Nsd0092g	<b>Contact block with one contact</b> mounting depth 50 mm							
	1 NO	 NSD00006	 NSD00015	▶	<b>3SB34 00-0B</b>		102 0.01	20
	1 NO	 NSD00007	 NSD00017	▶	<b>3SB34 00-0C</b>		102 0.01	20
<b>Contact blocks with 2 contacts</b> mounting depth 65 mm (incl. device identification label)								
Contact block with 2 contacts   Nsd0093g	1 NO + 1 NC	 NSD00033	 NSD00038	▶	<b>3SB34 00-0A</b>		102 0.019	10
	1 NO leading + 1 NC lagging	 NSD00034	 NSD00037b	B	<b>3SB34 00-0H</b>		102 0.016	10
	2 NO	 NSD00035	 NSD00039	B	<b>3SB34 00-0D</b>		102 0.019	10
	2 NC	 NSD00036	 NSD00040	B	<b>3SB34 00-0E</b>		102 0.019	10
	<b>Lampholder with integrated LED</b>							
Lampholder with integrated LED   nsd0575g	UC 24 V	yellow red green blue white		B	<b>3SB34 00-1PA</b>		102 0.01	10
				▶	<b>3SB34 00-1PB</b>		102	
				▶	<b>3SB34 00-1PC</b>		102	
				B	<b>3SB34 00-1PD</b>		102	
				▶	<b>3SB34 00-1PE</b>		102	
	AC 110 V	yellow red green blue white		B	<b>3SB34 00-1QA</b>		102 0.01	10
				B	<b>3SB34 00-1QB</b>		102	
				B	<b>3SB34 00-1QC</b>		102	
				B	<b>3SB34 00-1QD</b>		102	
				B	<b>3SB34 00-1QE</b>		102	
	AC 230 V	yellow red green blue white		B	<b>3SB34 00-1RA</b>		102 0.01	10
				▶	<b>3SB34 00-1RB</b>		102	
				▶	<b>3SB34 00-1RC</b>		102	
				B	<b>3SB34 00-1RD</b>		102	
				▶	<b>3SB34 00-1RE</b>		102	


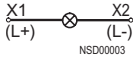
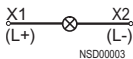
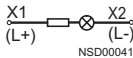
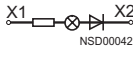
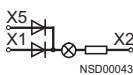
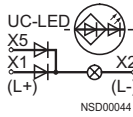
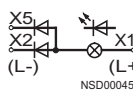
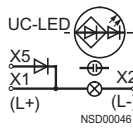

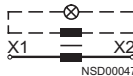
➡ Positive opening to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ □ Round and Square Programme

### Contact blocks and lampholders

#### Selection and ordering data

Version	Symbols	DT	Order No.	Price	PG	Weight approx.	Packs
		▶	Preferred type	1 unit		kg	Unit
<i>with screw terminals, for front plate mounting</i>							
 <p>Lampholder Nsd0094g</p>	<b>Lampholders</b> , BA9s mounting depth 50 mm without lamp		▶	<b>3SB34 00-1A</b>		102 0.013	20
	Operational voltage 24 V AC/DC with 24 V incandescent lamp (3SX1 344) <sup>1)</sup>		B	<b>3SB34 00-1D</b>		102 0.018	10
	<b>Lampholders</b> BA9s Operational voltage 110/130 V AC with built-in resistor for longer endurance and 130 V lamp (3SX1 731) <sup>1)</sup>		B	<b>3SB34 00-1B</b>		102 0.025	10
	Operational voltage AC 230/240 V with built-in voltage reducer and 130 V lamp (3SX1 731) <sup>1)</sup>		B	<b>3SB34 00-1C</b>		102 0.025	10
	<b>Lampholders</b> , BA9s with separate lamp test function <sup>2)</sup> incl. 130 V lamp (3SX1 731) <sup>1)</sup> Operational voltage AC 230/240 V		B	<b>3SB34 00-1F</b>		102 0.025	1
	for incandescent lamps, max. 2.6 W and for LED lamps, AC/DC Operational voltage depending on lamp		B	<b>3SB34 00-1G</b>		102 0.025	1
for incandescent lamps, max. 2.6 W and for LED lamps, DC Operational voltage depending on lamp		B	<b>3SB34 00-1L</b>		102 0.025	1	
for incandescent lamps, max. 2.6 W, for LED lamps, AC/DC and for neon bulbs, AC Operational voltage depending on lamp		B	<b>3SB34 00-1H</b>		102 0.025	1	
 <p>Transformer Nsd0095g</p>	<b>Transformer</b> for snap-on mounting on 3SB34 00-1A lampholder (lampholder not included) Operational voltage (50/60 Hz):		B	<b>3SB34 00-3A</b>		102 0.09	1
	127/24 V		B	<b>3SB34 00-3C</b>		102	
	240/24 V		B	<b>3SB34 00-3F</b>		102	
	400/24 V						
	127/6 V		B	<b>3SB34 00-3M</b>		102	
	240/6 V		B	<b>3SB34 00-3P</b>		102	
400/6 V		B	<b>3SB34 00-3S</b>		102		

For example of circuits, see page 9/113.

1) The lamp is included.



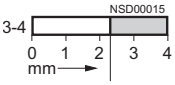

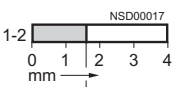

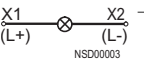
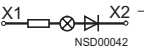




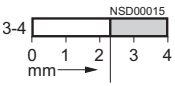

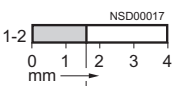

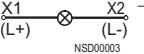

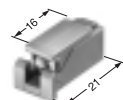
2) The lampholder with separate lamp test function can not be installed in an enclosure.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ □ Round and Square Programme

### Contact blocks and lampholders

#### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx.	Packs
		 contact closed contact open	▶ Preferred type	1 unit		kg	Unit	
<b>with cage clamp terminal connection, for front plate mounting</b>								
Contact block with cage clamp terminal connection  nsd0405g	<b>Contact block with 1 contact,</b> mounting depth 50 mm, grid 30 mm x 30 mm 1 NO				B	<b>3SB34 03-0B</b>	102 0.008	20
	1 NC				B	<b>3SB34 03-0C</b>	102 0.008	20
Lampholder with cage clamp terminal connection  nsd0576g	<b>Lampholders</b> mounting depth 50 mm, grid 30 mm x 30 mm without lamp				B	<b>3SB34 03-1A</b>	102 0.011	20
	Operational voltage AC 230/240 V, with built-in voltage reducer and 130 V lamp (3SX1 731) <sup>1)</sup>				B	<b>3SB34 03-1C</b>	102 0.023	10
<b>with screw or cage clamp terminal connection, for front panel mounting</b>								
Adapters for pushbutton units  Nsd0096g	<b>Adapters for push-buttons</b> <sup>2)</sup> for snap-on fitting of 3 elements			▶	<b>3SB39 01-0AB</b>	102 0.001	20	
Adapters for selector switches, key-operated switches and double pushbuttons  Nsd0097g	<b>Adapters for selector switches, key-operated switches and double push-buttons</b> with pressure plates for actuating the central contact block			▶	<b>3SB39 01-0AC</b>	102 0.001	10	
<b>with solder pins, for use on printed-circuit boards, mounting depth 44 mm</b>								
Contact block w. solder pins  Nsd0098g	<b>Contact blocks with 1 contact</b> 1 NO				B	<b>3SB34 11-0B</b>	102 0.002	20
	1 NC				B	<b>3SB34 11-0C</b>	102	
Lampholder w. solder pins  Nsd0099g	<b>Lampholders</b> wedge base W2 x 4.6 d, without lamp				B	<b>3SB34 11-1A</b>	102 0.002	20
Thrust pad  Nsd0082g	<b>Thrust pad for selector switches and key-op. switches</b> for actuating the central contact block (also for contact blocks with base mounting)				B	<b>3SB39 01-0AW</b>	102 0.001	10
PCB holder  nsd0132g	<b>PCB holder</b> for mounting the command devices with the printed-circuit board (screw supplied)				B	<b>3SB39 01-0AA</b>	102 0.001	10

▶ Positive opening to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) The lamp is included

2) Holders also available for pushbutton switches,

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ □ Round and Square Programme

### Laser inscription of actuators and indicator elements

#### Design

The actuators of the the pushbuttons, illuminated pushbuttons, mushroom pushbuttons, illuminated mushroom pushbuttons and the lens assemblies of the indicator lights of the round and square range can be inscribed by laser.

Also the front ring of selector switches can be inscribed.

Examples



Nsd0101g

Nsd0102g

#### Order requirements

Append the order number of the actuator or the indicator light with “-Z” and the required code (Y10, Y11, Y12, Y13 or Y19):

- Y10** for lower-/upper-case lettering
- Y11** for all upper-case lettering
- Y12** for all lower-case lettering
- Y13** for graphic symbols with number
- Y19** according to order form

#### Ordering example

**3SB31 10-0AA31-Z**  
**Y13**  
**Z = 1800**

Please observe ordering notes on page 9/53.

### Insert labels

#### Design

Pushbuttons (clear) and illuminated pushbuttons with a flat button can be fitted with insert labels for identification purposes.

These labels are made of clear transparent moulded plastic with black lettering and can be mounted in any 90° position.

#### Inscription

The insert labels without lettering are suitable for user marking with permanent pen.

The inscription (and the special inscription) has capital initial letters.

The symbols, also non-catalog, are in accordance with DIN Report 4.




### Selection and ordering data

Inscription		Insert labels for pushbuttons (clear) and illuminated pushbuttons (flat)		Insert labels for pushbuttons (clear) and illuminated pushbuttons (flat)	PG	Packs	
	DT	Order No.	Price 1 unit	DT	Order No.	Price 1 unit	Unit
Without inscription	B	<b>3SB19 01-4AS</b>		B	<b>3SB39 40-4AA</b>		102 10
Ein	B	<b>3SB19 01-4AB</b>		B	<b>3SB39 40-4AB</b>		102
On	B	<b>3SB19 01-4EB</b>		B	<b>3SB39 40-4EB</b>		102
Aus	B	<b>3SB19 01-4AC</b>		B	<b>3SB39 40-4AC</b>		102
Off	B	<b>3SB19 01-4EC</b>		B	<b>3SB39 40-4EC</b>		102
Auf	B	<b>3SB19 01-4AD</b>		B	<b>3SB39 40-4AD</b>		102
Up	B	<b>3SB19 01-4ED</b>		B	<b>3SB39 40-4ED</b>		102
Ab	B	<b>3SB19 01-4AE</b>		B	<b>3SB39 40-4AE</b>		102
Down	B	<b>3SB19 01-4EE</b>		B	<b>3SB39 40-4EE</b>		102
Vor	B	<b>3SB19 01-4AF</b>			-		102
Forward	B	<b>3SB19 01-4EF</b>		B	<b>3SB39 40-4EF</b>		102
Zurück	B	<b>3SB19 01-4AG</b>			-		102
Reverse	B	<b>3SB19 01-4EG</b>		B	<b>3SB39 40-4EG</b>		102
Rechts	B	<b>3SB19 01-4AH</b>		B	<b>3SB39 40-4AH</b>		102
Right	B	<b>3SB19 01-4EH</b>			-		102
Links	B	<b>3SB19 01-4AJ</b>		B	<b>3SB39 40-4AJ</b>		102
Left	B	<b>3SB19 01-4EJ</b>			-		102
Auf	B	<b>3SB19 01-4AD</b>		B	<b>3SB39 40-4AD</b>		102
Open	B	<b>3SB19 01-4EP</b>			-		102
Zu	B	<b>3SB19 01-4AL</b>		B	<b>3SB39 40-4AL</b>		102
Close	B	<b>3SB19 01-4EQ</b>			-		102
Schnell	B	<b>3SB19 01-4AM</b>		B	<b>3SB39 40-4AM</b>		102
Fast	B	<b>3SB19 01-4ER</b>			-		102
Langsam	B	<b>3SB19 01-4AN</b>		B	<b>3SB39 40-4AN</b>		102
Slow	B	<b>3SB19 01-4ES</b>			-		102
Betrieb	B	<b>3SB19 01-4AP</b>			-		102
Running	B	<b>3SB19 01-4EV</b>		B	<b>3SB39 40-4EV</b>		102
Störung	B	<b>3SB19 01-4AQ</b>		B	<b>3SB39 40-4AQ</b>		102
Fault	B	<b>3SB19 01-4EW</b>		B	<b>3SB39 40-4EW</b>		102
Einrichten	B	<b>3SB19 01-4AR</b>			-		102
Reset	B	<b>3SB19 01-4EM</b>		B	<b>3SB39 40-4EM</b>		102
Test	B	<b>3SB19 01-4EN</b>			-		102
Start	B	<b>3SB19 01-4EK</b>		B	<b>3SB39 40-4EK</b>		102
Halt	B	<b>3SB19 01-4AK</b>		B	<b>3SB39 40-4AK</b>		102
Stop	B	<b>3SB19 01-4EL</b>		B	<b>3SB39 40-4EL</b>		102

# Pushbutton Units and Indicator Lights SIGNUM 3SB3, ○ □ Round and Square Programme

Insert labels

## Selection and ordering data

Inscription			Insert labels for pushbuttons (clear) and illuminated push- buttons (flat) <b>Round programme</b>			Insert labels for pushbuttons (clear) and illuminated pushbuttons (flat) <b>Square programme</b>			PG	Packs
			nsd0055g			Nsd0083g				
DT	Order No.	Price 1 unit	DT	Order No.	Price 1 unit	DT	Order No.	Price 1 unit	Unit	
Symbol	Significance	Consecutive No. to DIN Report 4								
nss 00432g	○	Off	15	B	<b>3SB19 01-4MB</b>		B	<b>3SB39 40-4MB</b>	102	10
nss 00433g		On	16	B	<b>3SB19 01-4MC</b>		B	<b>3SB39 40-4MC</b>	102	
nss 00434g			-	B	<b>3SB19 01-4MD</b>		B	<b>3SB39 40-4MD</b>	102	
<b>Equipment symbols</b>										
nss 00410g		Electric motor	42	B	<b>3SB19 01-4PA</b>		B	<b>3SB39 40-4PA</b>	102	10
<b>Motion symbols</b>										
nss 00418g	→	Motion in direc- tion of arrow	28	B	<b>3SB19 01-4NA</b>		B	<b>3SB39 40-4NA</b>	102	10
nss 00427g	+	Increase, plus	40	B	<b>3SB19 01-4NG</b>		B	<b>3SB39 40-4NG</b>	102	
nss 00409g	-	Decrease, minus	41	B	<b>3SB19 01-4MC</b>		B	<b>3SB39 40-4MC</b>	102	
Insert labels with custom inscription										
<b>Insert label with choice of inscription</b>			C	<b>3SB19 01-4AZ K0Y, K1Y, K2Y, K3Y or K9Y</b>		C	<b>3SB39 40-4AZ K0Y, K1Y, K2Y, K3Y or K9Y</b>	102	10	

### Ordering with supplemental code

Append the following codes to the order number:

- For inscription with
  - Text in upper-/lower-case lettering **K0Y**
  - Text in all upper-case lettering **K1Y**
  - Text in all lower-case lettering **K2Y**
  - Symbols with number to DIN Report 4 **K3Y**
  - Text or symbols according to order form **K9Y**

### Ordering example

You want a label with image No. 1800 to DIN Report 4:

**3SB19 01-4AZ**  
**K3Y**  
**Z = 1800**

### Inscription examples



Single-line inscription in capital letters



Three-line inscription in lower-case letters



Inscription according to order form



Two-line inscription in Upper-/lower-case lettering



Inscription with No. 19 to DIN Report 4

### Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions in a foreign language, give the exact spelling and specify the language.

By default, a letter height of 4 mm (for a single line of text) or 3 mm (for 2 or 3 lines of text) is used for text inscriptions. The typeface used is Univers.

Other letter heights and typefaces are possible, but must be specified when ordering.

For round insert labels, the maximum possible number of characters per line are:

- 10 characters for one line of text,
- 8 characters for 2 lines of text,
- 6 characters for 3 lines of text, but 10 characters in the middle line.

Square insert labels can always contain 10 characters per line.

The DIN Report 4 (ISBN 3-410-14528-1) is available from

Beuth Verlag GmbH  
D-10772 Berlin  
Germany  
Tel.: +49 30 26012260  
Fax: +49 30 26011260.

# Pushbutton Units and Indicator Lights SIGNUM 3SB3, ○ □ Round and Square Programme

## Backing plates

### Design

The backing plates consist of a black moulded plastic holder and an inscription plate (black with white print<sup>1)</sup>). Adhesive or snap-on mounting. They are not suitable for EMERGENCY-STOP mushroom pushbuttons.

Note insert dimensions!

### Inscription

The inscription (and the special inscription) has capital initial letters.

For non-standard inscriptions with words in languages other than German, give the exact spelling and specify the language.

### Self-adhesive plates

The inscription plates are self-adhesive.

There are 2 sizes available for the round and square range:

- 30 mm × 45 mm plate holders with 12.5 mm × 27 mm inscription plate.
- 30 mm × 60 mm plate holders with 27 mm × 27 mm inscription plate.

### Snap-on plates

The following variants are available for the round range:

29.8 mm × 51 mm plate holders with 17.5 mm × 28 mm inscription plate (17.5 mm × 27 mm inscription field).

### Selection and ordering data

Inscription	Self-adhesive inscription plate <sup>1)</sup>						PG	Packs		
	12.5 mm × 27 mm <span style="color: green;">nsd0108g</span>		27 mm × 27 mm <span style="color: green;">nsd0109g</span>		Inscription plate for snap-on mounting <sup>1)</sup> 17.5 mm × 28 mm <span style="color: green;">nsd0110g</span>					
	DT	Order No.	Price 1 unit	DT	Order No.	Price 1 unit	DT	Order No.	Price 1 unit	Unit
blank	▶	<b>3SB39 02-1AA</b>		B	<b>3SB39 03-1AA</b>		▶	<b>3SB39 05-1AA</b>		102 10
Ein	B	<b>3SB39 02-1AB</b>		B	<b>3SB39 03-1AB</b>		B	<b>3SB39 05-1AB</b>		102
On	B	<b>3SB39 02-1EB</b>		B	<b>3SB39 03-1EB</b>		–	–		102
Aus	B	<b>3SB39 02-1AC</b>		B	<b>3SB39 03-1AC</b>		B	<b>3SB39 05-1AC</b>		102
Off	B	<b>3SB39 02-1EC</b>		B	<b>3SB39 03-1EC</b>		–	–		102
Auf	B	<b>3SB39 02-1AD</b>		B	<b>3SB39 03-1AD</b>		B	<b>3SB39 05-1AD</b>		102
Up	B	<b>3SB39 02-1ED</b>		–	–		–	–		102
Ab	B	<b>3SB39 02-1AE</b>		B	<b>3SB39 03-1AE</b>		B	<b>3SB39 05-1AE</b>		102
Down	B	<b>3SB39 02-1EE</b>		–	–		–	–		102
Vor	B	<b>3SB39 02-1AF</b>		B	<b>3SB39 03-1AF</b>		–	–		102 10
Forward	B	<b>3SB39 02-1EF</b>		–	–		–	–		102
Zurück	B	<b>3SB39 02-1AG</b>		B	<b>3SB39 03-1AG</b>		B	<b>3SB39 05-1AG</b>		102
Reverse	B	<b>3SB39 02-1EG</b>		–	–		–	–		102
Rechts	B	<b>3SB39 02-1AH</b>		B	<b>3SB39 03-1AH</b>		–	–		102
Right	B	<b>3SB39 02-1EH</b>		–	–		–	–		102
Links	B	<b>3SB39 02-1AJ</b>		B	<b>3SB39 03-1AJ</b>		–	–		102
Left	B	<b>3SB39 02-1EJ</b>		–	–		–	–		102
Auf	B	<b>3SB39 02-1AD</b>		B	<b>3SB39 03-1AD</b>		B	<b>3SB39 05-1AD</b>		102
Open	B	<b>3SB39 02-1EP</b>		–	–		–	–		102
Zu	B	<b>3SB39 02-1AL</b>		B	<b>3SB39 03-1AL</b>		B	<b>3SB39 05-1AL</b>		102
Close	B	<b>3SB39 02-1EQ</b>		–	–		–	–		102
Betrieb	B	<b>3SB39 02-1AP</b>		B	<b>3SB39 03-1AP</b>		B	<b>3SB39 05-1AP</b>		102 10
Störung	B	<b>3SB39 02-1AQ</b>		B	<b>3SB39 03-1AQ</b>		B	<b>3SB39 05-1AQ</b>		102
Fault	B	<b>3SB39 02-1EW</b>		–	–		–	–		102
Test	B	<b>3SB39 02-1EN</b>		–	–		–	–		102
Start	B	<b>3SB39 02-1EL</b>		B	<b>3SB39 03-1EL</b>		B	<b>3SB39 05-1EL</b>		102
Halt	B	<b>3SB39 02-1AK</b>		B	<b>3SB39 03-1AK</b>		B	<b>3SB39 05-1AK</b>		102 10
Stop	B	<b>3SB39 02-1EK</b>		–	–		B	<b>3SB39 05-1EK</b>		102
Stop Start	B	<b>3SB39 02-1BC</b>		B	<b>3SB39 03-1BC</b>		B	<b>3SB39 05-1BC</b>		102 10
Hand Auto	B	<b>3SB39 02-1BA</b>		B	<b>3SB39 03-1BA</b>		B	<b>3SB39 05-1BA</b>		102
Man Auto	B	<b>3SB39 02-1EU</b>		–	–		–	–		102
<b>Symbols</b>										
O	B	<b>3SB39 02-1MB</b>		–	–		–	–		102 10
I	B	<b>3SB39 02-1MC</b>		–	–		–	–		102
O – I	B	<b>3SB39 02-1MF</b>		B	<b>3SB39 03-1MF</b>		B	<b>3SB39 05-1MF</b>		102
1 2	B	<b>3SB39 02-1ML</b>		–	–		–	–		102
→	B	<b>3SB39 02-1NA</b>		B	<b>3SB39 03-1NA</b>		B	<b>3SB39 05-1NA</b>		102
↑	B	<b>3SB39 02-1NJ</b>		–	–		B	<b>3SB39 05-1NJ</b>		102

### Inscription plates with custom inscription

	C	<b>3SB39 02-1XZ</b> K0Y, K1Y, K2Y, K3Y or K9Y	for "K9Y", plus per unit	C	<b>3SB39 03-1XZ</b> K0Y, K1Y, K2Y, K3Y or K9Y	for "K9Y", plus per unit	C	<b>3SB39 05-1XZ</b> K0Y, K1Y, K2Y, K3Y or K9Y	for "K9Y", plus per unit	PG	Packs
Plate with choice of inscription										102	10
Max. number of rows		3			5			3			
Letter height		4 mm (one line) 3.5 mm (two lines) 3 mm (three lines)			4 mm (one to five lines)			4 mm (one or two lines) 3 mm (three lines)			

<sup>1)</sup> The inscription plates from the 3SB1 range (silver with black lettering) can also be used, see page 9/107.

# Pushbutton Units and Indicator Lights SIGNUM 3SB3, ○ □ Round and Square Programme

## Backing plates

### Selection and ordering data

Version	Plate holder for self-adhesive inscription plate 12.5 mm × 27 mm		27 mm × 27 mm		Plate holder for snap-on inscription plate 17.5 mm × 28 mm		PG	Packs		
	DT	Order No. Preferred type	Price 1 unit	DT	Order No. Preferred type	Price 1 unit			DT	Order No.
<b>Round program</b>	▶	<b>3SB39 22-0AV</b>		▶	<b>3SB39 23-0AV</b>		▶	<b>3SB39 25-0AX</b>	102	10
<b>Square program</b>	B	<b>3SB39 42-0AX</b>		B	<b>3SB39 43-0AX</b>			–	102	10
<b>for potentiometer drive</b> 3SB10 00-7CH07	B	<b>3SB39 22-0AV</b>			–			–	102	10

#### Ordering with supplemental code

Append the following codes to the order number:

For inscription with

- Text in upper-/lower-case lettering **K0Y**
- Text in all upper-case lettering **K1Y**
- Text in all lower-case lettering **K2Y**
- Symbols with number to DIN Report 4 **K3Y**
- Text or symbols according to order form **K9Y**

#### Inscription examples



Single-line inscription in capital letters

nsd0582g



Two-line inscription in Upper-/lower-case lettering

nsd0583g



Three-line inscription in lower-case letters

nsd0584g

#### Ordering example

You want a label with image No. 1800 to DIN Report 4:

**3SB39 02-1XZ**  
**K3Y**  
**Z = 1800**

#### Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in a language other than German, give the exact spelling and specify the language.

By default, the above letter heights are used for text inscriptions. The typeface used is Unifers.

Other letter heights and typefaces are possible, but must be specified when ordering.

Up to 10 characters per line are possible.

The DIN Report 4 (ISBN 3-410-14528-1) is available from

Beuth Verlag GmbH  
D-10772 Berlin  
Tel. +49 30 26012260  
Fax: +49 30 26011260.



Inscription with No. 35 to DIN Report 4

nsd0585g



Inscription according to order form











nsd0586g

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ □ Round and Square Programme

### Accessories and spare parts

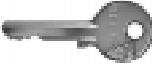









#### Selection and ordering data

	Version	Colour	DT	Order No. Preferred type	Price 1 unit	PG	Packs Unit
 Nsd0116g	<b>Button, flat</b> for round illuminated pushbuttons, plastic	red	B	<b>3SB39 30-0CA2</b>		102	10
		yellow	B	<b>3SB39 30-0CA3</b>		102	
		green	B	<b>3SB39 30-0CA4</b>		102	
		blue	B	<b>3SB39 30-0CA5</b>		102	
		white	B	<b>3SB39 30-0CA6</b>		102	
		clear	B	<b>3SB39 30-0CA7</b>		102	
 Nsd0118g	<b>Button, flat</b> for square illuminated pushbuttons, plastic	red	B	<b>3SB39 50-0CA2</b>		102	10
		yellow	B	<b>3SB39 50-0CA3</b>		102	
		green	B	<b>3SB39 50-0CA4</b>		102	
		blue	B	<b>3SB39 50-0CA5</b>		102	
		white	B	<b>3SB39 50-0CA6</b>		102	
		clear	B	<b>3SB39 50-0CA7</b>		102	
 nsd0399g	<b>Button, flat</b> for round pushbuttons, metal	black	B	<b>3SB39 30-0EA1</b>		102	10
		red	B	<b>3SB39 30-0EA2</b>		102	
		yellow	B	<b>3SB39 30-0EA3</b>		102	
		green	B	<b>3SB39 30-0EA4</b>		102	
		blue	B	<b>3SB39 30-0EA5</b>		102	
		white	B	<b>3SB39 30-0EA6</b>		102	
		clear	B	<b>3SB39 30-0EA7</b>		102	
 nsd0400g	<b>Button, flat</b> for round illuminated pushbuttons, metal	red	B	<b>3SB39 30-0GA2</b>		102	10
		yellow	B	<b>3SB39 30-0GA3</b>		102	
		green	B	<b>3SB39 30-0GA4</b>		102	
		blue	B	<b>3SB39 30-0GA5</b>		102	
		white	B	<b>3SB39 30-0GA6</b>		102	
		clear	B	<b>3SB39 30-0GA7</b>		102	
 nsd0401g	<b>Lenses, smooth</b> for round indicator lights, plastic or metal	red	B	<b>3SB39 30-6BA2</b>		102	10
		yellow	B	<b>3SB39 30-6BA3</b>		102	
		green	B	<b>3SB39 30-6BA4</b>		102	
		blue	B	<b>3SB39 30-6BA5</b>		102	
		white	B	<b>3SB39 30-6BA6</b>		102	
		clear	B	<b>3SB39 30-6BA7</b>		102	
 nsd0402g	<b>Lenses, concentric rings</b> for round indicator lights, plastic or metal	red	B	<b>3SB39 30-6CA2</b>		102	10
		yellow	B	<b>3SB39 30-6CA3</b>		102	
		green	B	<b>3SB39 30-6CA4</b>		102	
		blue	B	<b>3SB39 30-6CA5</b>		102	
		white	B	<b>3SB39 30-6CA6</b>		102	
		clear	B	<b>3SB39 30-6CA7</b>		102	
 Nsd0119g	<b>Lenses</b> for square illuminated pushbuttons, plastic	red	B	<b>3SB39 50-6AA2</b>		102	10
		yellow	B	<b>3SB39 50-6AA3</b>		102	
		green	B	<b>3SB39 50-6AA4</b>		102	
		blue	B	<b>3SB39 50-6AA5</b>		102	
		white	B	<b>3SB39 50-6AA6</b>		102	
		clear	B	<b>3SB39 50-6AA7</b>		102	
	<b>Mounting tool</b> for pushbuttons and lenses, metal		B	<b>3SB39 21-0BC</b>		102	1
 Nsd0120g	for round design, plastic		▶	<b>3SB39 31-0AA</b>		102	10
 Nsd0121g	for square design, plastic		B	<b>3SB39 51-0AA</b>		102	10
 nsd0403g	for round design, metal		▶	<b>3SB39 31-0AC</b>		102	10
	<b>Earthing screw</b> for holder, metal		B	<b>3SB39 21-0BD</b>		102	50

# Pushbutton Units and Indicator Lights SIGNUM 3SB3, ○ □ Round and Square Programme

## Accessories and spare parts

### Selection and ordering data

Version	Suitable for	Colour/ inscription	DT	Order No. ▶ Preferred type	Price 1 unit	PG	Packs Unit	
<b>Keys for key-operated switches</b>								
 Nsd0124g	Ronis key-operated switch, flat	SB 30	B	<b>3SB39 10-4A</b>		102	1	
	BKS key-operated switch	S 1	B	<b>3SY1 066</b>		102	1	
	CES key-operated switch	LSG 1		B	<b>3SB19 10-2F</b>		102	1
		SSG 10		▶ B	<b>3SY1 054</b>		102	
		SSP 9		B	<b>3SY1 052</b>		102	
	IKON key-operated switch	360012 K1		B	<b>3SY1 053</b>		102	1
O.M.R. key-operated switch	73038	light blue	B	<b>3SB19 10-2L</b>		102	1	
	73037	red	B	<b>3SB19 10-2M</b>		102		
	73034	black	B	<b>3SB19 10-2N</b>		102		
	73033	yellow	B	<b>3SB19 10-2P</b>		102		
<b>Protective cap clear, silicone<sup>1)</sup></b> degree of protection IP 67								
 Nsd0126g	for round design, plastic	flat button raised button selector switch	B B B	<b>3SB39 21-0AH</b> <b>3SB19 02-0AK</b> <b>3SB39 21-0BA</b>		102 102 102		
	for square design, plastic	flat button	B	<b>3SB39 41-0AH</b>		102		
	for round design, metal	flat button raised button selector switch	B B B	<b>3SB19 02-0AK</b> <b>3SB19 02-0AN</b> <b>3SB39 21-0BA</b>		102 102 102		
<b>Protective cap clear, Elastolan<sup>1)</sup></b> degree of protection IP 67								
 Nsd0127g	for round design, plastic	flat button raised button	B B	<b>3SB39 21-0AJ</b> <b>3SB39 21-0AM</b>		102 102		
	for square design, plastic	flat button	B	<b>3SB39 41-0AJ</b>		102		
	for round design, metal	flat button	B	<b>3SB39 21-0AM</b>		102		
	<b>Protective cap clear, silicone,</b> degree of protection IP 67							
 Nsd0128g	for round design	Mushroom push-pull button, Ø 40 mm	B	<b>3SB19 02-2BH</b>		102	1	
<b>Dust cap</b> for use in dusty environments								
 Nsd0634g		Key-operated switch	B	<b>3SB39 21-0BT</b>		102		
<b>Yellow backing plate, round,</b> as backing plate for EMERGENCY-STOP, for round version, self-adhesive Bore 23 mm, external diameter 80 mm								
 Nsd0129g	external diameter 60 mm	EMERGENCY-STOP mushroom pushbut- ton	blank	▶ <b>3SB39 21-0AB</b>		102	1	
			NOT-AUS	B	<b>3SB39 21-0AC</b>		102	
			EMERGENCY-STOP	B	<b>3SB39 21-0AD</b>		102	
			ARRET D'URGENCE EMERGENZA	B	<b>3SB39 21-0AG</b>		102	
<b>Yellow backing plate, round,</b> as backing plate for EMERGENCY-STOP, for square version, self-adhesive External diameter 80 mm, cut-out 26 mm x 26 mm								
		EMERGENCY-STOP mushroom pushbut- ton	blank	B	<b>3SB39 41-0AB</b>		102	1
			NOT-AUS	B	<b>3SB39 41-0AC</b>		102	
			EMERGENCY-STOP	B	<b>3SB39 41-0AD</b>		102	
<b>Blanking plugs</b>								
 Nsd0407g	for round version, metal <sup>1)</sup>		aluminized	B	<b>3SB19 02-0AQ</b>	1 Pack.	102	10
	for round design, plastic		black	▶ B	<b>3SB39 21-0AA</b>	1 unit	102	10
 Nsd0122g	for square design, plastic		black	b	<b>3SB39 41-0AA</b>		102	10
 Nsd0123g								






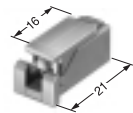





1) Not to be used with plate holder.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ □ Round and Square Programme

### Accessories and spare parts

#### Selection and ordering data

Version	Suitable for	Colour	DT	Order No.	Price	PG	Weight approx. kg	Packs
				▶ Preferred type	1 unit			Unit
 Nsd0130g	<b>Protective collar, yellow</b> <sup>1)</sup> for frontplate mounting, for round design	EMERGENCY- STOP mushroom pushbuttons						
		• without lock	▶	<b>3SB39 21-0AK</b>		102	0.025	1
		• with lock	B	<b>3SB39 21-0AX</b>		102		
 Nsd0131g	<b>Sun collar</b> for round design	Pushbuttons and indicator lights	black	B	<b>3SB39 21-0AS</b>		102	1
 Nsd0265g	<b>Sealable cap</b>	Pushbuttons with flat button	black transparent	B	<b>3SB19 02-0AL</b> <b>3SB19 02-2AR</b>		102	1
 Nsd0125g	<b>Single frame</b> for square design of the round version	Pushbuttons and indicator lights	black	B	<b>3SB39 21-0AU</b>		102	10
 Nsd0133g	<b>Device designation</b> Order No. and price per packet			B	<b>3TX4 210-0H</b>		102	100
	<b>Adaptor</b> consists of a metal disc with adhesive layer on one side. Mounting hole 30.5 mm, mounting as for 22 mm range	as thrust collars for frontplates of thin insulating material		B	<b>3SB39 21-0AE</b>		102	20
 nsd0132g	<b>Holder for printed-circuit board</b> for mounting the actuation units with the PCB (screw supplied)	Soldering element		B	<b>3SB39 01-0AA</b>		102	10
 Nsd0134g	<b>Hole drilling template</b> for the 30 mm grid, horizontal, for round and square design			B	<b>3SB19 02-2BG</b>		102	0.01
	<b>Hole punch, 26 mm x 26 mm,</b> for square design			B	<b>3SB39 41-0AF</b>		102	1
 Nsd0096g	<b>Adapters for pushbutton units</b> <sup>2)</sup> for snap-on mounting of 3 elements	Pushbuttons with front plate fixing		▶	<b>3SB39 01-0AB</b>		102	0.001
 Nsd0099g	<b>Adapters for selector switches, key- operated switches and double pushbuttons</b> with pressure plates for operation of the central contact block	Selector switches, key-operated switches and double pushbuttons with front panel mounting		▶	<b>3SB39 01-0AC</b>		102	0.001
 Nsd0082g	<b>Thrust pad for selector switches and key-operated switches</b> with pressure plates for operation of the central contact block	Selector switches and key-operated switches for use on PCB or with base mounting		B	<b>3SB39 01-0AW</b>		102	0.001
 Nsd0137g	<b>Audible signal transducer, BA 9s</b> base, operational voltage DC 24 – 28 V, operational current 25 mA, 0.6 W, min. sound pressure 80 dB/10 cm	Audible signal device <sup>3)</sup>		B	<b>3SB19 02-2BN</b>		102	0.003

1) The protective collar should be used only to protect against inadvertent operation and must be mounted so that easy operation is possible.




2) Holders also available for pushbutton switches, mushroom pushbuttons and push-pull buttons.

3) Note: With increased IP 65 protection use the audible signal device (complete units) (see page 9/22).

# Pushbutton Units and Indicator Lights SIGNUM 3SB3, ○ □ Round and Square Programme

## Accessories and spare parts

### Selection and ordering data

Version	Suitable for	Lamp voltage	Colour	DT	Order No.	Price	PG	Weight approx.	Packs	
					▶ Preferred type	1 unit		kg	Unit	
<b>Lamps with screw connection, BA 9s base</b>										
<b>Incandescent lamps</b>										
 Nsd0135g	1.2 W, max. length 28 mm, max. bulb diameter 10 mm	Illuminated push-buttons and indicator lights	4 V		B	<b>3SB19 02-0AY</b>	102	0.005	10	
	2 W, max. length 28 mm, max. bulb diameter 10 mm		6 V		B	<b>3SX1 342</b>	102	0.005	10	
			12 V		B	<b>3SX1 343</b>	102			
			24 V		▶ B	<b>3SX1 344</b>	102			
			30 V		B	<b>3SB19 02-2AF</b>	102			
2.6 W, length 28 mm, bulb diameter 10 mm		48 V		B	<b>3SB19 02-1AP</b>	102				
		60 V		B	<b>3SR94 24</b>	102				
			110 ... 130 V <sup>1)</sup>		▶ B	<b>3SX1 731</b>	102	0.005	10	
<b>Multi-incandescent lamp</b>										
	Illuminated push-buttons and indicator lights	24 V			B	<b>3SB19 02-2BU</b>	102	0.005	10	
<b>LEDs, super-bright</b>										
 Nsd0136g	Max. length 28 mm, bulb diameter 10 mm, max. operational current 15 mA	Illuminated push-buttons and indicator lights	UC 24 V		red	▶ B	<b>3SB39 01-1CA</b>	102	0.003	10
					yellow	B	<b>3SB39 01-1BA</b>	102		
					green	▶ B	<b>3SB39 01-1DA</b>	102		
					blue	B	<b>3SB39 01-1PA</b>	102		
					white	▶ B	<b>3SB39 01-1QA</b>	102		
	AC 130 V				red	B	<b>3SB39 01-1CD</b>	102	0.003	10
					yellow	B	<b>3SB39 01-1BD</b>	102		
					green	B	<b>3SB39 01-1DD</b>	102		
					blue	B	<b>3SB39 01-1PD</b>	102		
					white	B	<b>3SB39 01-1QD</b>	102		
AC 230 V				red	B	<b>3SB39 01-1CF</b>	102	0.003	10	
				yellow	B	<b>3SB39 01-1BF</b>	102			
				green	B	<b>3SB39 01-1DF</b>	102			
				blue	B	<b>3SB39 01-1PF</b>	102			
				white	B	<b>3SB39 01-1QF</b>	102			
<b>LEDs</b>										
Max. length 28 mm, bulb diameter 10 mm										
Operational current 15 mA	Illuminated push-buttons and indicator lights	DC 22 ... 32 V		red	B	<b>3SB19 02-4AJ</b>	102	0.005	10	
				yellow	B	<b>3SB19 02-4BJ</b>	102			
				green	B	<b>3SB19 02-4CJ</b>	102			
Blinking (1.4 Hz) 29 mA 27 mA 24 mA		DC 24 V		red	B	<b>3SB19 02-4LC</b>	102	0.005	10	
				yellow	B	<b>3SB19 02-4MC</b>	102			
				green	B	<b>3SB19 02-4NC</b>	102			
<b>Glow lamps<sup>2)</sup></b>										
length 28 mm, bulb diameter 10 mm	Illuminated push-buttons and indicator lights	AC 110 V	clear	B	<b>3SX1 703</b>	102	0.005	10		
		AC 220 V	clear	B	<b>3SX1 701</b>	102				
		AC 220 V	green	B	<b>3SX1 702</b>	102				
<b>Lamp extractor</b>										
	Lamps with BA 9s bases	-			▶ B	<b>3SB19 02-2AD</b>	102	0.002	1	
<b>Lamp adapter for fitting a wedge base into a BA 9s holder</b>										
					B	<b>3SB19 02-1AU</b>	102	0.005	1	
<b>Lamps for use on PCBs, wedge base</b>										
<b>Incandescent lamps</b>										
 Nsd0028g	W2 × 4.6 d base, 1.0 W		6 V		B	<b>3SB29 08-1AA</b>	102	0.003	10	
			12 V		B	<b>3SB29 08-1AB</b>	102			
			24 V		▶ B	<b>3SB29 08-1AC</b>	102			
			30 V		B	<b>3SB29 08-1AD</b>	102			
			48 V		B	<b>3SB29 08-1AE</b>	102			
			60 V		B	<b>3SB29 08-1AF</b>	102			
<b>LEDs, super-bright</b>										
W2 × 4.6 d base, operational current 10 mA			DC 24 V		red	B	<b>3SB39 01-1SB</b>	102	0.003	10
					yellow	B	<b>3SB39 01-1RB</b>	102		
					green	B	<b>3SB39 01-1TB</b>	102		
					white	B	<b>3SB39 01-1UB</b>	102		
					blue	B	<b>3SB29 08-1BD</b>	102		
<b>Lamp extractor</b>										
	Lamps with base W2 × 4.6 d				▶ B	<b>3SB29 08-2AB</b>	102	0.002	1	

1) Also for use for AC 230 V when used with a 3SB34 00-1C voltage reducer.

2) Due to the inherent orange colour of glow lamps and their lower luminance level compared to incandescent lamps, it is recommended that they

should only be used with clear or red lenses and in areas where ambient light levels are not very high.

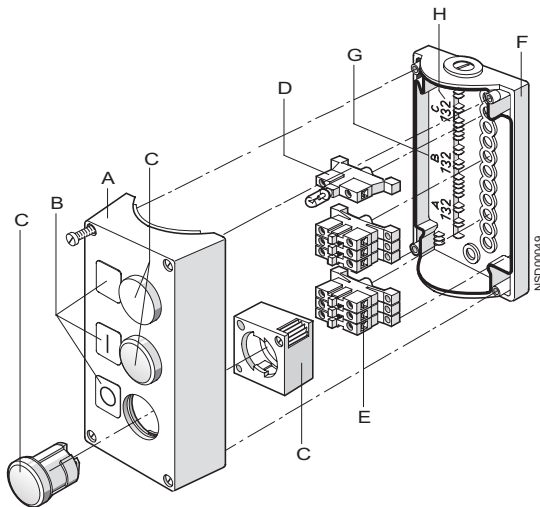
# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm, Enclosed

### Introduction



NSD0153h



- A Cover of enclosure
- B Inscription plates
- C Actuator with holder. Suitable for use with standard actuators and lens assemblies. Instead of the actuator, a blanking plug can be fitted.
- D Function number
- E Contact blocks, lampholder, voltage reducer for base mounting. Up to 3 contact blocks can be used per control point. The equipment is factory-fitted in compliance with DIN 50 013 (terminal markings and figures for particular command devices).
- F Base of enclosure
- G Letters for identifying the command points on the inside of the covers and bases of the enclosure.
- H Contact designators

### Application

Enclosed pushbutton and indicator lights are used for hand operated command devices with separately allocated control. The units are climate-proof.

### Specifications

IEC 60 947-5-1,  
DIN VDE 0660 Part 200.

### Design

The device is supplied as a complete unit with standard equipment or equipment of choice.

### Enclosures

Moulded plastic enclosures with 1, 2, 3, 4 or 6 command points are available. The mounting holes are located external to the terminal compartment.

Cable openings: at the upper and lower enclosure ends for one Pg 16/Pg 21 or M 20/M 25 gland.

- Enclosure colour:
- cover: RAL 7035 (light grey),
  - cover for EMERGENCY-STOP: RAL 1004 (yellow),
  - base: RAL 9005 (black).

The moulded plastic enclosure meets the protective requirement "Protective insulation".

### Actuators

The actuators and lens assemblies with 22 mm mounting diameter can be used (see pages 9/23 to 9/30).

The actuators are fitted through the hole in the cover of the enclosure and are connected to the holder supplied with the actuator and secured in position.

### Contact blocks and lampholders

Contact blocks and lampholders are snapped into the enclosure. Each command point can be fitted with either 3 contacts or 2 contacts + 1 lampholder/lampholder with integrated voltage reducer.

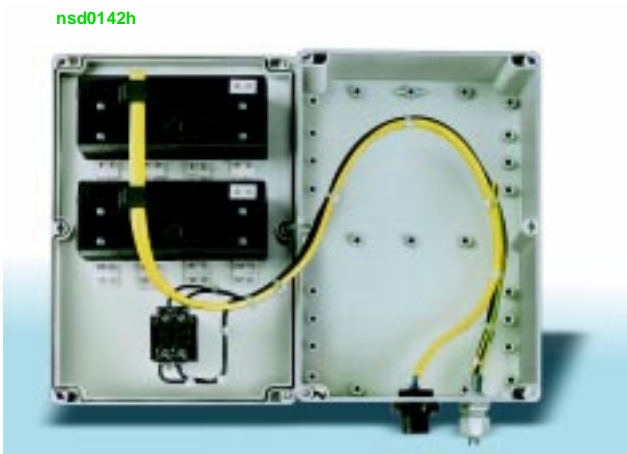
The contact blocks have movable double moving contacts and therefore a high contact stability, i. e. they are suitable for use in electronic control systems. Function numbering is shown on the contact block.

Single pole contact blocks and lampholders for front-plate mounting can be used (see pages DT and 9/51).

### Customer-specific enclosures



nsd0141h



nsd0142h


Enclosures with more than 6 command points can also be supplied with AS interface connection.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm, Enclosed



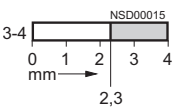

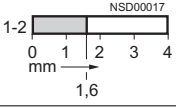

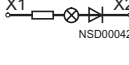

Empty enclosures

### Selection and ordering data

Version	Number of command points	DT	Moulded plastic enclosure		PG	Weight approx. kg	Packs Unit
			Order No. Preferred type	Price 1 unit			
 <p><b>Cable entry<sup>1)</sup> top and bottom</b>                      1 × Pg 16/M 20 each for 1 to 3 command points,                      1 × Pg 16/M 25 each for 4 command points,                      1 × Pg 21/M 25 each for 6 command points</p> <p>for contact blocks, lampholders and accessories with snap-on base mounting, also 1-pole frontplate elements can be used (switching state remains on opening)</p>	1	▶	<b>3SB38 01-0AA</b>	102	0.14	1	
	2	▶	<b>3SB38 02-0AA</b>	102	0.18		
	3	▶	<b>3SB38 03-0AA</b>	102	0.28		
	4	▶	<b>3SB38 04-0AA</b>	102	0.32		
	6	B	<b>3SB38 06-0AA</b>	102	0.36		
	<p>for EMERGENCY-STOP, with yellow cover, for contact blocks, lampholders and accessories with snap-on base mounting, also 1-pole frontplate elements can be used (switching state remains on opening)</p> <p>with flat cover</p>	1	B	<b>3SB38 01-0AB</b>	102	0.14	1
<p>with cover with protective collar<sup>2)</sup></p>	1	B	<b>3SB38 01-0AD</b>	102	0.14		

### Contact blocks and lampholders

### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx. kg	Packs Unit
				Preferred type	1 unit			
<i>for base mounting</i>								
Contact block  <p><b>Contacts</b></p>	1 NO			▶	<b>3SB34 20-0B</b>	102		10
	1 NC			▶	<b>3SB34 20-0C</b>	102		10
<b>Support clamps</b>		black blue green/yellow		B	<b>3SB39 01-0AG</b>	102	0.015	
				B	<b>3SB39 01-0AH</b>	102		
				B	<b>3SB39 01-0AJ</b>	102		
Lampholder BA 9 s		–		▶	<b>3SB34 20-1A</b>	102	0.013	10
	Lampholder, BA 9s Operational voltage AC 230/240 V with built-in voltage reducer and 130 V lamp <sup>3)</sup>			B	<b>3SB34 20-1C</b>	102	0.013	10
Thrust pad 				B	<b>3SB39 01-0AW</b>	102	0.001	10

➔ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) The enclosure base can optionally contain knockouts for Pg or metric glands. For metric glands, append "3" to the order number, e. g. 3SB38 01-0AA3.

2) The protective collar should be used only to protect against inadvertent operation and must be mounted so that easy operation is possible.

3) Lamp included.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm, Enclosed

### Enclosures with standard equipment

#### Design

With 1 to 3 command points, up to AC/DC 400 V, vertical mounting, with moulded plastic front rings.


The actuator/indicator is fixed with an enclosed nut. If required it can be disassembled with a 27 mm socket wrench or with a 3SX17 07 ring nut wrench.

With contact blocks for base mounting (snapped into the base of the enclosure).

Colour of cover of enclosure: grey, RAL 7035 or yellow, RAL 1004

Colour of base of enclosure: black, RAL 9005.

#### Selection and ordering data

Equipped with (A, B, C = identification letters for command points) Actuators	Degree of protection	Contact blocks <sup>1)</sup>	Number of com- mand points	DT	Moulded plastic enclosure		PG	Weight approx. kg	Packs Unit
					Order No. Preferred type	Price 1 unit			
 <b>Cable entry<sup>2)</sup> top and bottom 1 × Pg 16/M 20 each</b>									
A = Pushbutton green, label "I"	IP 65	1 NO	1	▶	<b>3SB38 01-0DA</b>		102	0.17	1
A = Pushbutton white, label "I"	IP 65	1 NO	1	B	<b>3SB38 01-0DD</b>		102	0.17	1
A = Pushbutton red, label "O"	IP 65	1 NC	1	B	<b>3SB38 01-0DB</b>		102	0.17	1
A = Pushbutton black, label "O"	IP 65	1 NC	1	B	<b>3SB38 01-0DE</b>		102	0.17	1
A = EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching function, cover of enclosure yellow	IP 65	1 NC	1	▶	<b>3SB38 01-0DG</b>		102	0.19	1
A = EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching function, cover of enclosure yellow, with protective collar <sup>3)</sup>	IP 65	1 NC	1	B	<b>3SB38 01-0DF</b>		102	0.22	1
B = Pushbutton green, label "I"	IP 65	1 NO	2	▶	<b>3SB38 02-0DA</b>		102	0.23	1
A = Pushbutton red, label "O"		1 NC							
B = Pushbutton white, label "I"	IP 65	1 NO	2	B	<b>3SB38 02-0DB</b>		102	0.23	1
A = Pushbutton black, label "O"		1 NC							
C = Indicator light clear, blank label	IP 65	BA 9 s	3	B	<b>3SB38 03-0DA</b>		102	0.35	1
B = Pushbutton green, label "I"		1 NO							
A = Pushbutton red, label "O"		1 NC							
C = Indicator light clear, blank label	IP 65	BA 9 s	3	B	<b>3SB38 03-0DC</b>		102	0.35	1
B = Pushbutton white, label "I"		1 NO							
A = Pushbutton black, label "O"		1 NC							
C = Pushbutton black, label "I"	IP 65	1 NO	3	B	<b>3SB38 03-0DB</b>		102	0.35	1
B = Pushbutton black, label "I"		1 NO							
A = Pushbutton red, label "O"		1 NC							



Nsd0145g



Nsd0146g

1) The command units can be fitted with more than 1 contact block (max. 3 contact blocks), if required. Supplement the Order No. with “-Z” and specify the number of contact blocks required. Price upon request.

2) The enclosure base can optionally contain knockouts for Pg or metric glands. For metric glands, append “3” to the order number, e.g. 3SB38 01-0DA3.









3) The protective collar should be used only to protect against inadvertent operation and must be mounted so that easy operation is possible.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm, Enclosed

### Accessories

#### Selection and ordering data

Version	Labelling/ colour	DT	Order No.	Price	PG	Weight approx.	Packs
			▶ Preferred type	1 unit		kg	Unit
 Nsd0148g	<b>Yellow backing plate</b> as contrasting area for enclosed EMERGENCY-STOP command device, self adhesive	blank with recess for inscription plate	▶ <b>3SB19 02-1AQ</b> B <b>3SB19 02-2AQ</b>		102 102	0.005	1
 Nsd0122g	<b>Blanking plug</b> for round design	black	▶ <b>3SB39 21-0AA</b>		102		10
	<b>Connection piece</b> for combining 2 enclosures, 2 × Pg 16		B <b>3SB39 01-0AE</b>		102	0.008	1
 nsd0096g	<b>Adapters for pushbuttons</b> <sup>1)</sup> for snap-on fitting of 3 elements, with front-plate mounting		▶ <b>3SB39 01-0AB</b>		102	0.001	20
 nsd0097g	<b>Adapters for selector switches and key- operated switches</b> with thrust plates, for actuating the central contact block, with front-plate mounting		▶ <b>3SB39 01-0AC</b>		102	0.001	10
 Nsd0082g	<b>Thrust pad for selector switches and key- operated switches</b> for actuating the central contact block, with base mounting		B <b>3SB39 01-0AW</b>		102	0.001	10
 Nsd0150g	<b>Cable glands</b> (without hexagonal nut) M 20 M 25 Pg 16 Pg 21		B <b>3SB39 01-0CK</b> B <b>3SB39 01-0CM</b> B <b>3SB39 01-0AK</b> B <b>3SB39 01-0AM</b>		102 102 102 102	0.01 0.01 0.01 0.01	1 1 1 1
 Nsd0151g	<b>Hexagonal nut for cable glands</b> M 20 M 25 Pg 16 Pg 21		B <b>3SB39 01-0CL</b> B <b>3SB39 01-0CN</b> B <b>3SB39 01-0AL</b> B <b>3SB39 01-0AN</b>		102 102 102 102	0.001 0.001 0.001 0.001	1 1 1 1
 Nsd0152g	<b>Pg 16 terminal for AS interface cable</b> suitable receptacles: crimp snap-in contacts 0.2–0.56 mm <sup>2</sup>		B <b>3SB39 01-0AF</b>		102		1

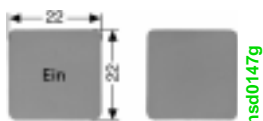
1) Holder also for pushbuttons, mushroom push-buttons and push-pull switches.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm, Enclosed

### Labelling with inscription plates

#### Design



The inscription plates (black with white inscription) <sup>1)</sup> have an adhesive layer on the back.

#### Inscription

The inscription (and the special inscription) has capital initial letters.

For non-standard inscriptions with words in languages other than German, give the exact spelling and specify the language.

### Selection and ordering data

Inscription	Order No. Preferred type	Inscription	Order No.	Inscription	Order No.	Inscription	Order No.
blank	<b>3SB39 06-1AA</b>	Schnell	<b>3SB39 06 -1AM</b>	<b>Symbols</b>		<b>Special inscriptions</b>	
Price		Fast	<b>3SB39 06 -1ER</b>	O	<b>3SB39 06-1MB</b>	3 lines with	<b>3SB39 06-0XZ</b>
Ein	<b>3SB39 06-1AB</b>	Langsam	<b>3SB39 06 -1AN</b>	I	<b>3SB39 06-1MC</b>	11 letters each	<b>K0Y, K1Y, K2Y</b>
On	<b>3SB39 06-1EB</b>	Slow	<b>3SB39 06 -1ES</b>	II	<b>3SB39 06-1MD</b>	are possible	or <b>K9Y</b>
Aus	<b>3SB39 06-1AC</b>	Betrieb	<b>3SB39 06 -1AP</b>	III	<b>3SB39 06-1ME</b>	Letter height:	
Off	<b>3SB39 06-1EC</b>	Running	<b>3SB39 06 -1EV</b>	O I	<b>3SB39 06-1MF</b>	4 mm (1 to 3 lines)	
Auf	<b>3SB39 06-1AD</b>	Störung	<b>3SB39 06 -1AQ</b>	I O II	<b>3SB39 06-1MG</b>	Supplement the	
Up	<b>3SB39 06-1ED</b>	Fault	<b>3SB39 06 -1EW</b>	I	<b>3SB39 06-1MH</b>	Order No. with	
Ab	<b>3SB39 06-1AE</b>	Einrichten	<b>3SB39 06 -1AR</b>	O		the following Order	
Down	<b>3SB39 06-1EE</b>	Reset	<b>3SB39 06 -1EM</b>	O	<b>3SB39 06-1MW</b>	Code:	
Vor	<b>3SB39 06-1AF</b>	Test	<b>3SB39 06 -1EN</b>	II		- Capital initial	<b>K0Y</b>
Forward	<b>3SB39 06-1EF</b>	Start	<b>3SB39 06 -1EL</b>	O	<b>3SB39 06-1NA</b>	letters	<b>K1Y</b>
Zurück	<b>3SB39 06-1AG</b>	Halt	<b>3SB39 06 -1AK</b>	I		- Capital letters	<b>K2Y</b>
Reverse	<b>3SB39 06-1EG</b>	Stop	<b>3SB39 06 -1EK</b>	→		- Small letters	<b>K9Y</b>
Rechts	<b>3SB39 06-1AH</b>	EMERGENCY-	<b>3SB39 06 -1AS</b>			- Acc.to order	
Right	<b>3SB39 06-1EH</b>	STOP		Price			
Links	<b>3SB39 06-1AJ</b>	Lüfter	<b>3SB39 06 -1CA</b>	PG 102			
Left	<b>3SB39 06-1EJ</b>	Pump	<b>3SB39 06 -1CB</b>	DT B			
Auf	<b>3SB39 06-1AD</b>	Kühlung	<b>3SB39 06 -1CC</b>	<b>Other symbols</b>	<b>3SB39 06-0XZ</b>	Please observe ordering notes on page 9/55.	
Open	<b>3SB39 06-1EP</b>	Heizung	<b>3SB39 06 -1CD</b>	acc. to	<b>K3Y</b>		
Zu	<b>3SB39 06-1AL</b>	Beleuchtung	<b>3SB39 06 -1CE</b>	DIN Report 4	also state symbol		
Close	<b>3SB39 06-1EQ</b>	Filter	<b>3SB39 06 -1CF</b>		serial number		
		Motor	<b>3SB39 06 -1CG</b>				
		Kompressor	<b>3SB39 06 -1CH</b>				
Price		Price		Price		Price	
PG 102		PG 102		PG 102		PG 102	
DT B		DT B		DT C		DT C	

### Enclosures with choice of equipment

#### Design

With 1 to 6 command points; up to AC/DC 400 V; degree of protection IP 65

Each command point consists of an actuator/indicator with contact blocks or a lamp-holder and inscription plate (see above). Select the control points in accordance with pages 9/67 to 9/70. Use order form in appendix (see page 9/66).

#### Pricing

The prices are made up of the enclosure prices below and a price supplement based on the choice of command points.

### Selection and ordering data

Version	Number of command points	DT	Moulded plastic enclosure		PG	Weight approx. kg	Packs Unit
			Order No.	Price 1 unit			
3SB38 03- .AZ (The equipment shown is only an example)	1	C	<b>3SB38 01-0AZ</b>		102	0.17	1
	2	C	<b>3SB38 02-0AZ</b>		102	0.23	
	3	C	<b>3SB38 03-0AZ</b>		102	0.35	
	4	C	<b>3SB38 04-0AZ</b>		102	0.41	
	6	C	<b>3SB38 06-0AZ</b>		102	0.51	
	<b>For surface mounting,</b> with single-pole contact blocks and lampholders for frontplate mounting	1	C	<b>3SB38 01-1AZ</b>		102	0.17
2		C	<b>3SB38 02-1AZ</b>		102	0.23	
3		C	<b>3SB38 03-1AZ</b>		102	0.35	
4		C	<b>3SB38 04-1AZ</b>		102	0.41	
6		C	<b>3SB38 06-1AZ</b>		102	0.51	



1) The inscription plates from the 3SB1 range (silver with black lettering) can also be used, see page 9/114.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, ○ Round Programme, 22 mm, Enclosed

Enclosures with choice of equipment

### Guide for completion of the order form appendix

1. Enter the Item No.
2. Specify quantity
3. Enter required order No.

e. g.

3SB38 0.-0AZ for surface mounting, moulded plastic enclosure, contact blocks for base mounting,

3SB38 0.-1AZ for surface mounting, moulded plastic enclosure, contact blocks for front-plate mounting.

The supplement for the 7th position of the Order No. (number of control points) should be entered in accordance with page 9/64.

#### 4. Fill in drawing

##### 4.1 Actuators

Select actuators in accordance with pages 9/67 to 9/69 and enter the codes. Various Ø 40 mm mushroom pushbuttons cannot be placed next to each other because of the close spacing. The purpose of the identification letter (A to F) on the inside of the cover and base of the enclosure is to simplify ordering and complementing of enclosures.

Should a command point not be required, state the code for a blank plug.

Please observe EN 60 204 (IEC 60 204)/VDE 0113:

The OFF pushbutton should be black, the ON pushbutton white. Illuminated pushbuttons should not be used as OFF pushbuttons.

A yellow backing plate must be used in conjunction with a red EMERGENCY-STOP mushroom pushbutton. This is available at an additional charge (see 4.6).

Vertical mounting

On		white or clear
On		white or green
Off		black or red

Horizontal mounting



nss 00458g

##### 4.2 Specify contact blocks, lampholders and voltage reducers for each command point

Select the codes for the desired equipment in accordance with the table on page 9/70 and enter them in the appropriate column.

For

- pushbuttons
- actuators with 2 switching positions
- illuminated pushbuttons
- indicator lights

the quantity and type of contact block or lampholder required etc. must be entered.

Illuminated pushbuttons and indicator lights with a voltage reducer are supplied with an incandescent lamp.

If a lampholder without voltage reducer is to be supplied with a lamp, state the lamp voltage and, for 110 V, the lamp type (incandescent, glow lamp or LED lamp) under 4.3.

The table on page 9/70 contains all the possible combinations for 3-position actuators in accordance with EN 50 013. Enter the appropriate code. If a different arrangement of contact blocks is desired for a command point, this command point must be ordered without contact blocks. The contact blocks must be ordered separately and fitted into the enclosure.

The command points in the enclosure can be fitted with a maximum of 3 contact blocks or 2 contact blocks and 1 lampholder.

##### 4.3 Notes on non-standard versions of equipment

Non-standard refers to equipment that differs from that listed in this catalog, e. g.

- Additional supply of lamps without voltage reducers:  
State lamp voltage and type of lamp (incandescent, glow lamp or LED),
- Insert labels for illuminated pushbuttons.  
Select Order No. according to pages 9/52 and 9/53 and enter accordingly,
- Special locks for lockable actuators  
(= different Lock No.).

##### 4.4 Inscription of the inscription plates

Enter the text. For selection of the inscription plates, see page 9/64. If a blank plate is required, state "blank".

The inscription plates are delivered loose. If no inscription plate is to be fitted, enter "without plate".

Inscription plates with a special text can be supplied at an additional price. Enter the text. The inscription plates are delivered adherent to the cover of the enclosure.

The lettering has capital initial letters.

##### 4.5 Tick the position of the inscription plate for horizontal or vertical mounting.

If no entry is made, the equipment will be supplied for vertical mounting.

##### 4.6 Special features (only when required)

Special features are versions of enclosures that differ from those listed in this catalog,

E.g. if required, mark the DIN 57 133/VDE 0113-conformant yellow backing plate. Enclosures with only one command point will then be supplied with a yellow cover. Should the enclosure have more than one command point, a yellow backing plate will be factory fitted at point "A". If the yellow backing plate should be fixed to another command point, please state which one this is to be.

##### 4.7 Knockouts for Pg or metric glands.

If this entry is missing, enclosure with knockouts for Pg glands will be supplied.



# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, Choice of Equipment

Equipping the command points  
(order form, section IV/1)

### Selection and ordering data

Version	Codes for colours													Additional charge
	black	red	yellow	green	blue	white	clear							
<b>Actuators and indicators<sup>1)</sup></b>														
22.5 mm blank plug <sup>2)</sup>	BV	BK	–	–	–	–	–	–	–	–	–	–	–	–
Pushbutton with flat button	D	BK	D	RD	D	YE	D	GN	D	BU	D	WH	D	CL
Illuminated pushbutton with flat button	–	–	DL	RD	DL	YE	DL	GN	DL	BU	DL	WH	DL	CL
Pushbutton with raised button <sup>2)</sup>	DH	BK	DH	RD	DH	YE	–	–	DH	BU	–	–	–	–
Illuminated pushbutton with raised button <sup>2)</sup>	–	–	DHL	RD	DHL	YE	DHL	GN	DHL	BU	–	–	DHL	CL
Pushbutton with raised front ring	DHF	BK	DHF	RD	DHF	YE	DHF	GN	DHF	BU	DHF	WH	–	–
Pushbutton with raised front ring (castell.)	DFZ	BK	DFZ	RD	DFZ	YE	DFZ	GN	DFZ	BU	DFZ	WH	–	–
Pushbutton with flat button	DS	BK	DS	RD	DS	YE	DS	GN	DS	BU	DS	WH	–	–
Illuminated pushbutton with flat button	–	–	DLS	RD	DL	YE	DLS	GN	DLS	BU	DLS	WH	DLS	CL
Mushroom shaped pushbutton, Ø 30 mm <sup>2)</sup>	P30	BK	P30	RD	P30	YE	P30	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 30 mm <sup>2)</sup>	–	–	–	–	PL30	YE	PL30	GN	–	–	PL30	WH	–	–
Mushroom pushbutton, Ø 40 mm <sup>2)</sup>	P	BK	P	RD	P	YE	P	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 40 mm <sup>2)</sup>	–	–	PL	RD	PL	YE	PL	GN	–	–	–	–	–	–
Pushbutton, with raised button, maintained-contact type; <sup>2)</sup> latched by pressing and turning to the right, unlatching by turning to the left	DHR	BK	DHR	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching Releases by turning anticlockwise	–	–	PRÜ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with RONIS lock, lock No. SB30	–	–	PRS 30	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with CES lock, lock No. SSG10	–	–	PRS 10	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with BKS lock, lock No. S1	–	–	PRS S1	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with O.M.R. lock, lock No. 73037	–	–	PRS 73	RD	–	–	–	–	–	–	–	–	–	–
Audible signal device <sup>2)</sup> , IP 40	AMK	BK	–	–	–	–	–	–	–	–	–	–	–	–
Indicator light	–	–	L	RD	L	YE	L	GN	L	BU	L	WH	L	CL
Push-pull button, snap-action type, Ø 30 mm <sup>2)</sup>	DZ 30	BK	DZ30	RD	–	–	–	–	–	–	–	–	–	–
Illuminated push-pull button, snap-action type, Ø 30 mm <sup>2)</sup>	–	–	DZB30	RD	DZB30	YE	DZB30	GN	DZB30	BU	–	–	DZB30	CL
Push-pull button, snap-action type, Ø 40 mm <sup>2)</sup>	DZ	BK	DZ	RD	–	–	–	–	–	–	–	–	–	–
Illuminated push-pull button, snap-action type, Ø 40 mm <sup>2)</sup>	–	–	DZB	RD	DZB	YE	DZB	GN	DZB	BU	–	–	DZB	CL

For special designs, see page 9/70.

1) For more details about these actuators, see pages 9/23 to 9/30.

2) Cannot be used with front panel module.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, Choice of Equipment

Equipping the command points  
(order form, section IV/1)

### Selection and ordering data

Version	Codes for colours							Additional charge
	black	red	yellow	green	blue	white	clear	PG 102

#### Selector switches<sup>1)</sup>

##### Switching sequence O-I latching nss 00439g

Non-illuminated	K1	BK	K1	RD	–	K1	GN	–	K1	WH	–	
Illuminated	–		BK1	RD	BK1	YE	BK1	GN	BK1	BU	–	BK1 CL

##### Switching sequence O-I non-latching to the right (with return from the right) nss 00438g

Non-illuminated	K2	BK	K2	RD	–	K2	GN	–	K2	WH	–	
Illuminated	–		BK2	RD	BK2	YE	BK2	GN	BK2	BU	–	BK2 CL

##### Switching sequence I-O-II latching nss 00448g

Non-illuminated	K4	BK	K4	RD	–	K4	GN	–	K4	WH	–	
Illuminated	–		BK4	RD	BK4	YE	BK4	GN	BK4	BU	–	BK4 CL

##### Switching sequence I-O-II non-latching (with return from the left and right) nss 00445g

Non-illuminated	K5	BK	K5	RD	–	K5	GN	–	K5	WH	–	
Illuminated	–		BK5	RD	BK5	YE	BK5	GN	BK5	BU	–	BK5 CL

##### Switching sequence I-O-II latching to the right, non-latching to the left (with return from the left) nss 00446g

Non-illuminated	K6	BK	K6	RD	–	K6	GN	–	K6	WH	–	
-----------------	----	----	----	----	---	----	----	---	----	----	---	--

##### Switching sequence I-O-II latching to the left, non-latching to the right (with return from the right) nss 00447g

Non-illuminated	K7	BK	K7	RD	–	K7	GN	–	K7	WH	–	
-----------------	----	----	----	----	---	----	----	---	----	----	---	--

Version	Code							Additional charge
	Key removable in position							
	O	I	II	O and I	O and II	I and II	I, O and II	PG 102

#### Key-operated switches<sup>1)</sup>

##### Switching sequence O-I latching nss 00444g

RONIS type, flat, lock No. SB30	RSB	1A	RSB	1E	–	RSB	1AE	–	–	–
CES type, lock No. SSG 10 lock No. LSG 1	CES	1A	CES	1E	–	CES	1AE	–	–	–
	CESL	1A	–	–	–	CESL	1AE	–	–	–
IKON type, lock No. 360012 K1	Z-J	1A	–	–	–	Z-J	1AE	–	–	–
BSK type, lock No. S1	BKS	1A	BKS	1E	–	BKS	1AE	–	–	–
lock No. E1 (for VW)	BKS A	1A	–	–	–	BKS A	1AE	–	–	–
lock No. E2 (for VW)	BKS E	1A	–	–	–	BKS E	1AE	–	–	–
lock No. E7 (for VW)	BKS C	1A	–	–	–	BKS C	1AE	–	–	–
lock No. E9 (for VW)	BKS B	1A	–	–	–	BKS B	1AE	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	1A	OMR BK	1E	–	OMR BK	1AE	–	–	–

For special designs, see page 9/70.

1) For more details about these actuators, see pages 9/23 to 9/30.

# Pushbutton Units and Indicator Lights SIGNUM 3SB3, Choice of Equipment

Equipping the command points  
(order form, section IV/1)


## Selection and ordering data

Version	Code	Additional charge
	Key removable in position	
	O I II O and I O and II I and II I, O and II	PG 102

### Key-operated switches <sup>1)</sup>

**Switching sequence O-I**  **non-latching to the right (with return from the right)** <sup>nss 00441g</sup>

RONIS type, flat, lock No. SB30	RSB	2A	-	-	-	-	-	-	-
CES type, lock No. SSG 10 lock No. LSG 1	CES CESL	2A 2A	-	-	-	-	-	-	-
IKON type, lock No. 360012 K1	Z-J	2A	-	-	-	-	-	-	-
BKS type, Lock No. S1	BKS	2A	-	-	-	-	-	-	-
O.M.R. type, black, lock No. 73034	OMR BK	2A	-	-	-	-	-	-	-

**Switching sequence I-O-II**  **latching** <sup>nss 00448g</sup>

RONIS type, flat, lock No. SB30	RSB	4A	RSB	4E	RSB	4D	-	-	RSB	4ED	RSB	4EAD
CES type, Lock No. SSG 10	CES	4A	CES	4E	CES	4D	-	-	CES	4ED	CES	4EAD
IKON type, lock No. 360012 K1	Z-J	4A	Z-J	4E	Z-J	4D	-	-	Z-J	4ED	Z-J	4EAD
BKS type, Lock No. S1	BKS	4A	BKS	4E	BKS	4D	-	-	BKS	4ED	BKS	4EAD
O.M.R. type, black, lock No. 73034	OMR BK	4A	-	-	-	-	-	-	OMR BK4ED	-	OMR BK	4EAD

**Switching sequence I-O-II**  **non-latching (with return from the left and right)** <sup>nss 00445g</sup>

RONIS type, flat, lock No. SB30	RSB	5A	-	-	-	-	-	-	-	-
CES type, Lock No. SSG 10	CES	5A	-	-	-	-	-	-	-	-
IKON type, lock No. 360012 K1	Z-J	5A	-	-	-	-	-	-	-	-
BKS type, Lock No. S1	BKS	5A	-	-	-	-	-	-	-	-
O.M.R. type, black, lock No. 73034	OMR BK	5A	-	-	-	-	-	-	-	-

**Switching sequence I-O-II**  **non-latching to the right, momentary contact to the left (with return from the left)** <sup>nss 00446g</sup>

RONIS type, flat, lock No. SB30	RSB	6A	-	RSB	6D	-	RSB	6AD	-	-
CES type, Lock No. SSG 10	CES	6A	-	CES	6D	-	CES	6AD	-	-
IKON type, lock No. 360012 K1	Z-J	6A	-	Z-J	6D	-	Z-J	6AD	-	-
BKS type, Lock No. S1	BKS	6A	-	BKS	6D	-	BKS	6AD	-	-
O.M.R. type, black, lock No. 73034	OMR BK	6A	-	OMR BK	6D	-	OMR BK	6AD	-	-

**Switching sequence I-O-II**  **latching to the left, non-latching to the right (with return from the right)** <sup>nss 00447g</sup>

RONIS type, flat, lock No. SB30	RSB	7A	RSB	7E	-	RSB	7AE	-	-	-
CES type, Lock No. SSG 10	CES	7A	CES	7E	-	CES	7AE	-	-	-
IKON type, lock No. 360012 K1	Z-J	7A	Z-J	7E	-	Z-J	7AE	-	-	-
BKS type, Lock No. S1	BKS	7A	BKS	7E	-	BKS	7AE	-	-	-
O.M.R. type, black, lock No. 73034	OMR BK	7A	OMR BK	7E	-	-	-	-	-	-

For special designs, see page 9/70.

1) For more details about these actuators,  
see pages 9/23 to 9/30.

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3, Choice of Equipment

### Equipping the command points (order form, sections IV/2 and IV/4)

#### Selection and ordering data

	Version		Code	Additional charge PG 102
<b>Contact blocks, lampholders and voltage reducers</b>				
Codes for lampholders and actuators with 2 switch positions	Contact block	Normally open Normally closed	<b>NO</b> <b>NC</b>	
	Lampholder without lamp		<b>BA 9 s</b>	
	Lampholder with lamp, Enter order No. under IV/3 (Notes) <sup>1)</sup>		<b>BA 9s L</b>	
	BA 9s lampholder + voltage reducer (operational voltage AC 230 V) for connecting a 130 V lamp)		<b>BA 9s VL</b>	
	+ lamp			
	BA 9s lampholder + audible signal transducer		<b>BA 9s S</b>	
	Holder for 3 snap-on elements with front plate fixing			
	Holder with pressure plates for selector switch and key-operated switch for operating the middle contact block, with front plate fixing			
	Pressure plate for selector switch and key-op. switch for operating the middle contact block, with base fixing			
	Support terminals	black blue green/yellow	<b>Sk BK</b> <b>Sk BU</b> <b>Sk GNYE</b>	
	M12 socket (AS interface)			

	Number and type of contact blocks	in position I		in position II		Code	Additional charge PG 102
		actuated	contact identifica- tion	actuated	contact identifica- tion		
Code for actuators with 3 positions	2 NO	1 NO	13/14	1 NO	23/24	<b>03</b>	
	1 NO + 1 NC	1 NO	13/14	1 NC	21/22	<b>04</b>	
	2 NC	1 NC	11/12	1 NC	21/22	<b>05</b>	
	3 NO	2 NO	13/14 and 33/34	1 NO	23/24	<b>07</b>	
		1 NO	13/14	2 NO	23/24 and 33/34	<b>08</b>	
		2 NO	13/14 and 33/34 <sup>2)</sup>	2 NO	23/24 and 33/34 <sup>2)</sup>	<b>06</b>	
	2 NO+1 NC	2 NO	13/14 and 33/34	1 NC	21/22	<b>11</b>	
		1 NO	13/14	1NC+1NO	21/22 and 33/34	<b>12</b>	
		2 NO	13/14 and 33/34 <sup>2)</sup>	1NC+1NO	21/22 and 33/34 <sup>2)</sup>	<b>10</b>	
		1 NO + 1 NC	13/14 and 31/32	1NC+1NC	23/24 and 31/32	<b>19</b>	
	1 NO + 2 NC	1 NO + 1 NC	13/14 and 31/32	1 NC	21/22	<b>14</b>	
		1 NO	13/14	2 NC	21/22 and 31/32	<b>15</b>	
		1 NO + 1 NC	13/14 and 31/32 <sup>2)</sup>	2 NC	21/22 and 31/32 <sup>2)</sup>	<b>13</b>	
3 NC	2 NC	11/12 and 31/32	1 NC	21/22	<b>17</b>		
	1 NC	11/12	2 NC	21/22 and 31/32	<b>18</b>		
	2 NC	11/12 and 31/32 <sup>2)</sup>	2 NC	21/22 and 31/32 <sup>2)</sup>	<b>16</b>		

	Inscription		Additional charge PG 102
<b>Labelling plates</b>	Inscription in accordance with the table on page 9/64. Special inscription blank	Laser-printed inscription	

### Special designs

#### Selection and ordering data

	Version		Additional charge PG 102
<b>3SB38 enclosed pushbut- tons units</b>	Fitting a yellow backing plate	without inscription with recess for inscription plate	
	Enclosure with yellow lid <sup>3)</sup>		

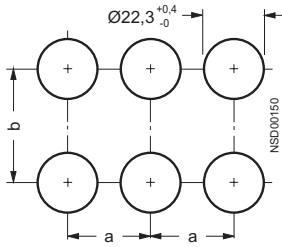
1) For lamps, see page 9/59.

2) This contact block is actuated in positions I and II.

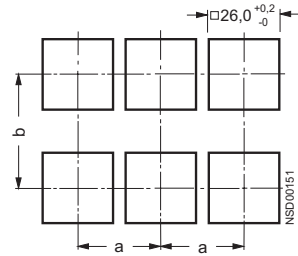
3) Only possible for single point enclosed push-button units.

#### Mounting dimensions

Round design



Square design

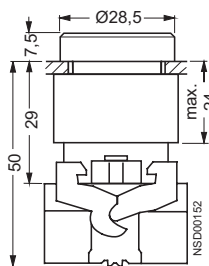


Minimum clearance	a	b
Contact blocks (1 contact) and lampholder		
• for front plate mounting, with screw terminals	30 <sup>1)</sup>	45
• for front plate mounting, with cage clamp terminals	30 <sup>1)</sup>	30 <sup>1)</sup>
• for use on PCB, with solder pins	30 <sup>1)</sup>	30 <sup>1)</sup>
Contact blocks with 2 contacts		
• for front plate mounting, with screw terminals	30 <sup>1)</sup>	50
When using holders for inscription plates		
• 12,5 mm × 27 mm	30 <sup>1)</sup>	45 <sup>2)</sup>
• 27,0 mm × 27 mm	30 <sup>1)</sup>	60
When using labelling system	40 <sup>3)</sup>	40 <sup>3)</sup>

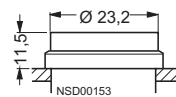
- 1) Note mushroom diameter = 40 mm or 60 mm for mushroom pushbuttons, EMERGENCY-STOP and push-pull button units.
- 2) 60 mm with contact blocks having two contacts.
- 3) See operating instructions.

#### Round program, 22 mm mounting diameter, plastic version

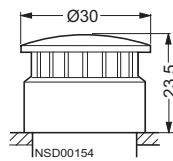
**Pushbutton or illuminated pushbutton, latching or non-latching types**  
with flat button and single pole contact block or lampholder



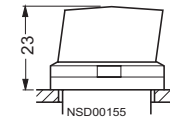
**Pushbutton or illuminated pushbutton with raised button**



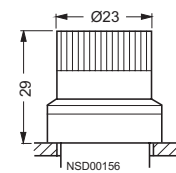
**Mushroom pushbutton, illuminated mushroom pushbutton, push-pull button or illuminated push-pull button,**  
Ø 30 mm



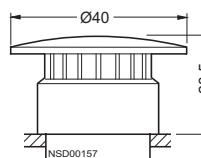
**Selector switch or illuminated selector switch**



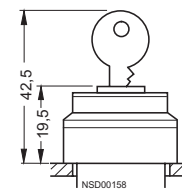
**Pushbutton unit with raised button, locking**



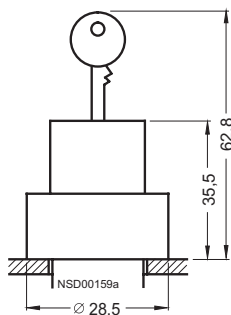
**Mushroom pushbutton, illuminated push-pull button, normal or illuminated**  
Ø 40 mm



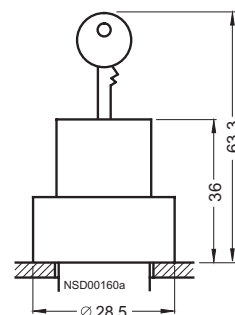
**RONIS key-operated switch**  
flat, with 2 keys



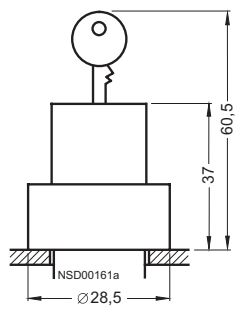
**CES key-operated switch**



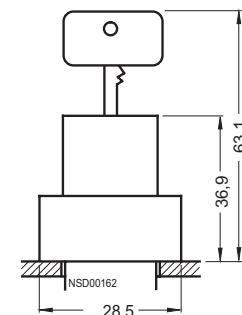
**BKS key-operated switch**



**IKON key-operated switch**



**O.M.R. key-operated switch**



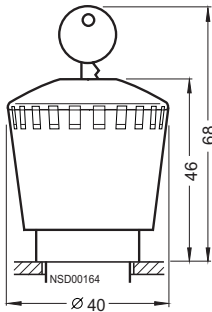
# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3

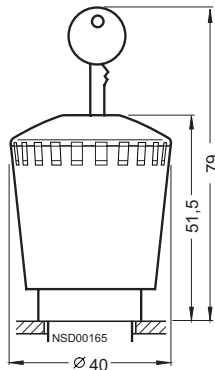
### Dimension drawings Actuators and indicator elements

#### Round programme, 22 mm mounting diameter, plastic version (continued)

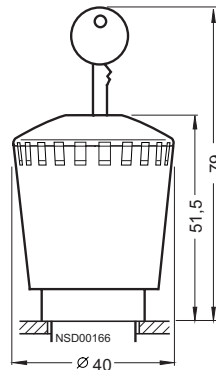
**EMERGENCY-STOP mushroom pushbutton**  
with RONIS lock



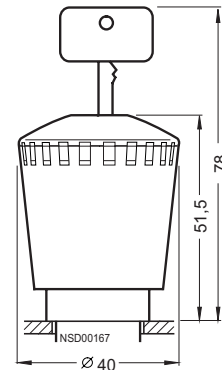
**EMERGENCY-STOP mushroom pushbutton**  
with CES lock



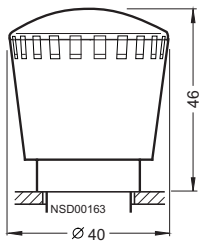
**EMERGENCY-STOP mushroom pushbutton**  
with BKS lock



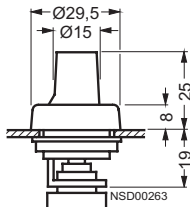
**EMERGENCY-STOP mushroom pushbutton**  
with O.M.R. lock



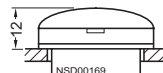
**EMERGENCY-STOP mushroom pushbutton**  
with positive latching



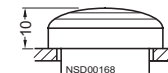
**Potentiometer mechanism**  
with  $\varnothing 6$  mm shaft,  
30 ... 32 mm long



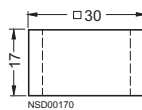
**Indicator light**



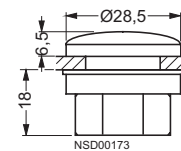
**Audible signal device**



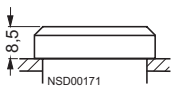
**Holder**



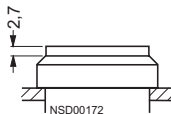
**Blanking plug**



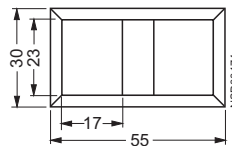
**Twin pushbutton**  
with flat buttons



**Twin pushbutton**  
with raised buttons

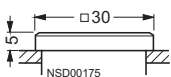


**Twin pushbutton**  
with or without indicator light  
Plan view

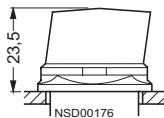


#### Square range, 26 mm x 26 mm, plastic version

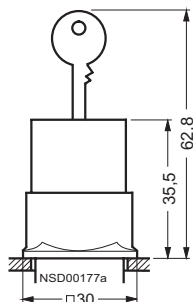
**Pushbutton or illuminated pushbutton, latching or non-latching types**  
with flat button



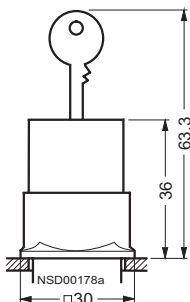
**Selector switch or illuminated selector switch**



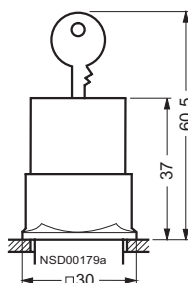
**CES key-operated switch**



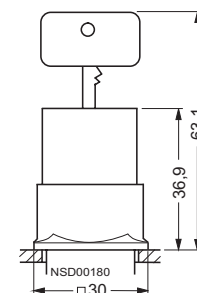
**BKS key-operated switch**



**IKON key-operated switch**

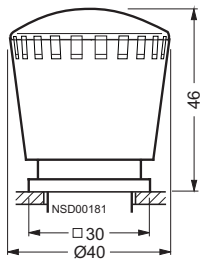


**O.M.R. key-operated switch**

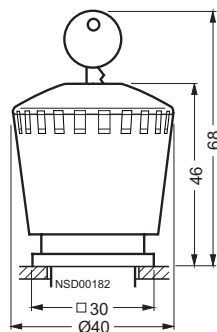


#### Square range, 26 mm x 26 mm, plastic version

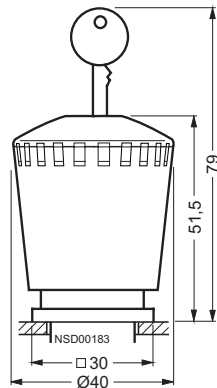
**EMERGENCY-STOP mushroom pushbutton**  
with positive latching function,  
twist to release



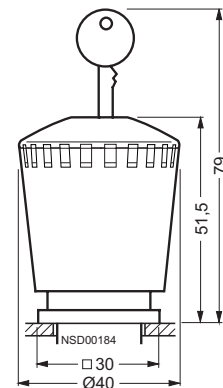
**EMERGENCY-STOP mushroom pushbutton**  
with RONIS lock



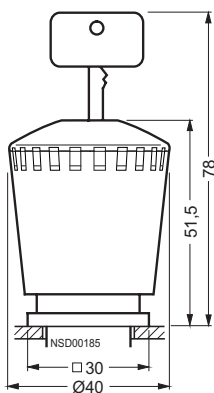
**EMERGENCY-STOP mushroom pushbutton**  
with CES lock



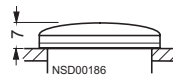
**EMERGENCY-STOP mushroom pushbutton**  
with BKS lock



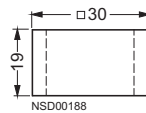
**EMERGENCY-STOP mushroom pushbutton**  
with O.M.R. lock



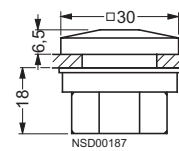
**Indicator light**



**Holder**

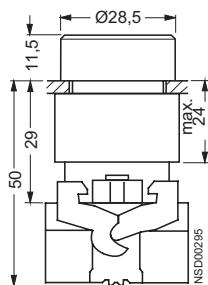


**Blanking plug**

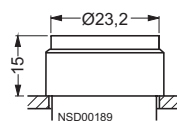


#### Round programme, 22 mm mounting diameter, metal version

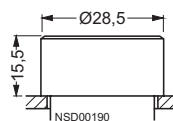
**Pushbutton or illuminated pushbutton,**  
with flat pushbutton  
and single-pole contact block  
or lampholder



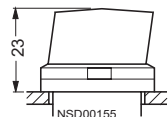
**Pushbutton or illuminated pushbutton**  
with raised button



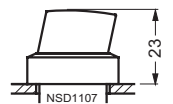
**Pushbutton**  
with raised front-ring



**Selector switch or illuminated selector switch**



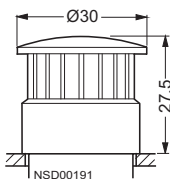
**Selector switch or illuminated selector switch,**  
heavy-duty version



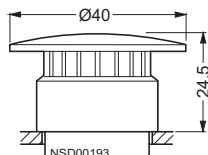
**Selector switch or illuminated selector switch,**  
long version



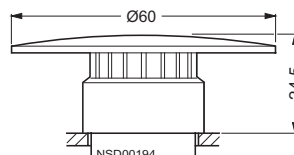
**Mushroom pushbutton, push-pull button, normal or illuminated**  
Ø 30 mm



**Mushroom pushbutton, illuminated push-pull button, normal or illuminated**  
Ø 40 mm

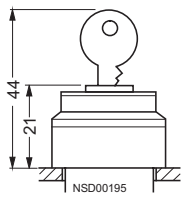


**Mushroom pushbutton, illuminated push-pull button, normal or illuminated**  
Ø 60 mm

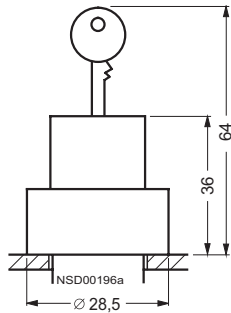


Round programme, 22 mm mounting diameter, metal version (continued)

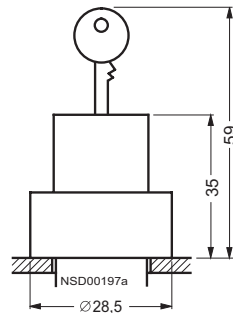
**RONIS key-operated switch,**  
flat, with 2 keys



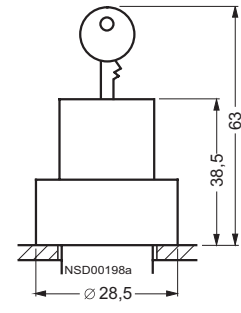
**CES key-operated switch**



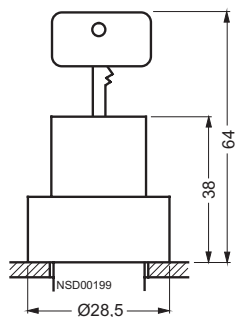
**BKS key-operated switch**



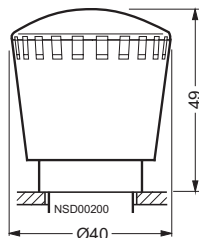
**IKON key-operated switch**



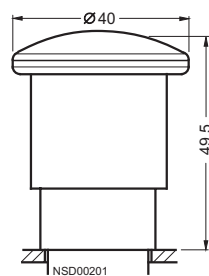
**O.M.R. key-operated switch**



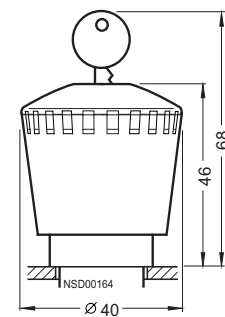
**EMERGENCY-STOP mushroom pushbutton**  
with positive latching function,  
twist to release



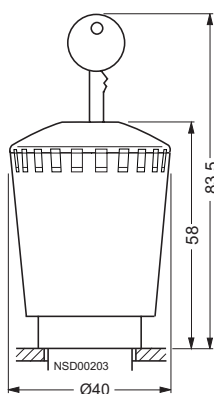
**EMERGENCY-STOP mushroom pushbutton**  
with positive latching function,  
pull to release



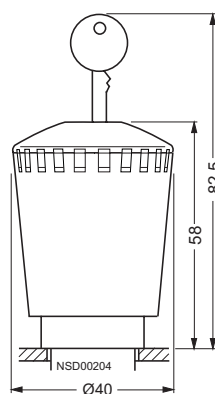
**EMERGENCY-STOP mushroom pushbutton**  
with RONIS lock



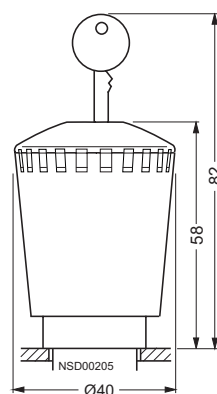
**EMERGENCY-STOP mushroom pushbutton**  
with CES lock



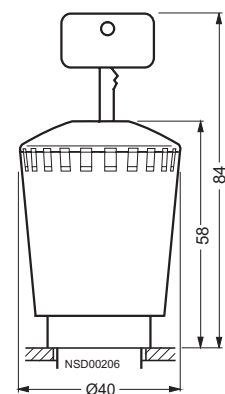
**EMERGENCY-STOP mushroom pushbutton**  
with IKON lock



**EMERGENCY-STOP mushroom pushbutton**  
with BKS lock



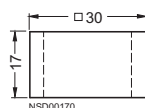
**EMERGENCY-STOP mushroom pushbutton**  
with O.M.R. lock



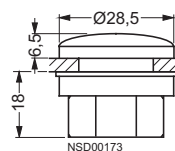
**Indicator light**



**Holder**

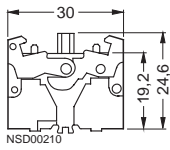


**Blanking plug**

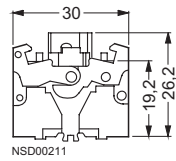


#### with cage clamp terminals, for front plate mounting

**Contact block 1 NO or 1 NC**

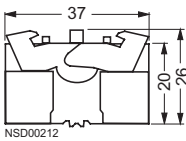


**Lampholder**

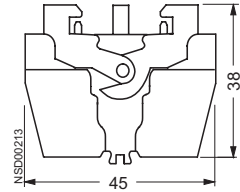


#### with screw terminals, for front plate mounting

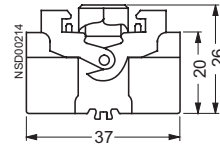
**Contact block 1 NO or 1 NC or lampholder**



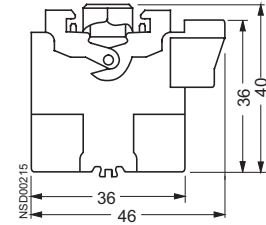
**Contact block 2 NO, 2 NC or 1 NO + 1 NC**



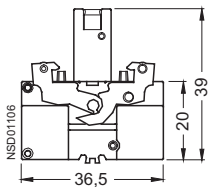
**Lampholder with or without integral voltage reducer**



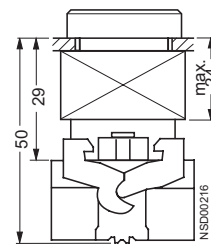
**Lampholder with decoupled lamp test facility**



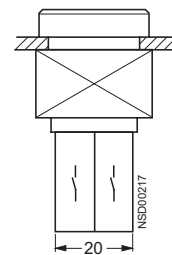
**Lampholder with LED**



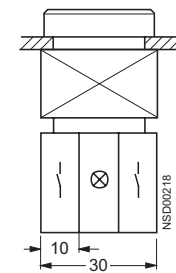
**Pushbutton or illuminated pushbutton with contact blocks 1 NO or 1 NC**



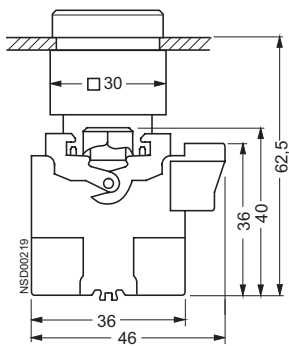
**Pushbutton with contact blocks 1 NO or 1 NC**



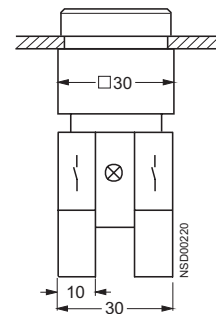
**Illuminated pushbutton with contact blocks 1 NO or 1 NC and lampholder**



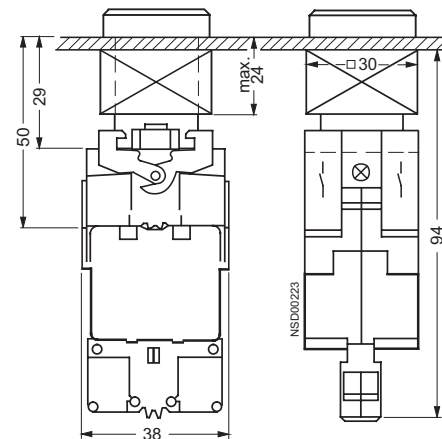
**Pushbutton or illuminated pushbutton with contact blocks 2 NO, 2 NC or 1 NO + 1 NC**



**Illuminated pushbutton with contact blocks 2 NO, 2 NC or 1 NO + 1 NC and lampholder**

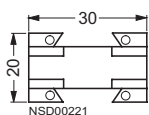


**Illuminated pushbutton with contact blocks 1 NO or 1 NC and lampholder with snapped-on transformer**

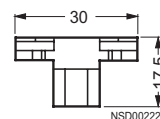


#### for front plate mounting

**Holder for pushbuttons for snap-on fitting of 3 elements**



**Holder for selector switch, key-operated switch and double pushbuttons with thrust pads for middle contact block**



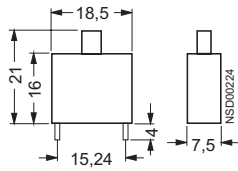
# Pushbutton Units and Indicator Lights

## SIGNUM 3SB3

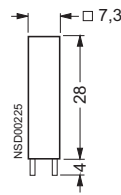
### Dimension drawings Contact blocks and lampholders

with solder pins, for use on PCB

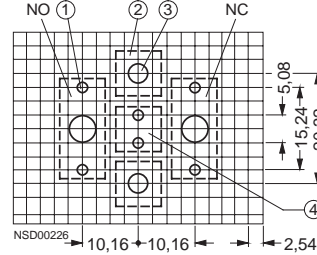
Contact block 1 NO and 1 NC



Lampholder

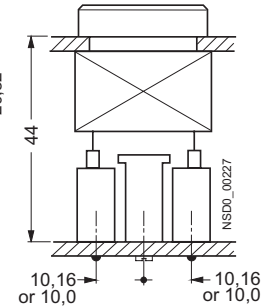


Spacing of solder pins



- ① Solder pin  $\varnothing 1.3^{+0.1}$
- ② PCB holder
- ③ Centring hole  $\varnothing 4.2^{+0.1}$
- ④ Lampholder

Pushbutton with contact blocks 1 NO or 1 NC and PCB carrier

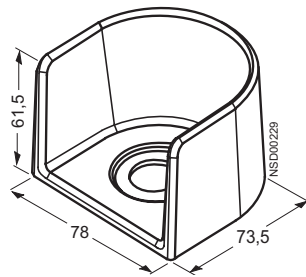
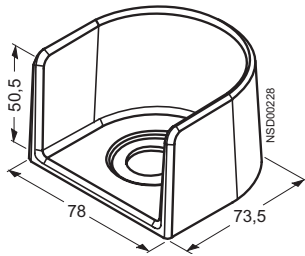


### Dimension drawings Accessories and enclosures

#### Accessories

**3SB39 21-0AK protective collar** for frontplate mounting<sup>1)</sup>, for EMERGENCY-STOP mushroom pushbutton without key-operated switch

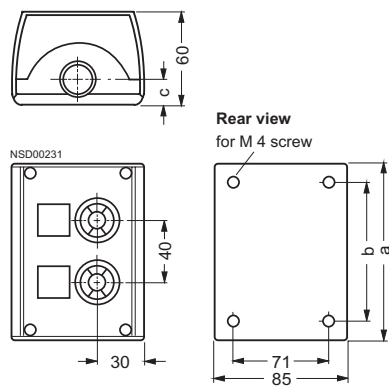
**3SB39 21-0AX protective collar** for frontplate mounting<sup>1)</sup>, for EMERGENCY-STOP mushroom pushbutton with key-operated switch



1) Can be used with a frontplate thickness up to 4 mm.

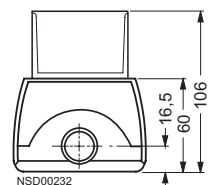
#### Enclosed control units, nominal diameter 22 mm

Enclosure without protective collar



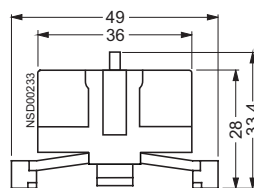
top and bottom with knockouts for one gland each

Enclosure with protective collar

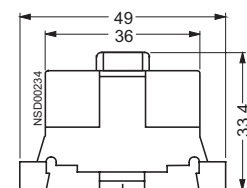


top and bottom with knockouts for one gland each

Contact block 1 NO and 1 NC of lampholder for base mounting



Lampholder for base mounting with or without built-in voltage reducer



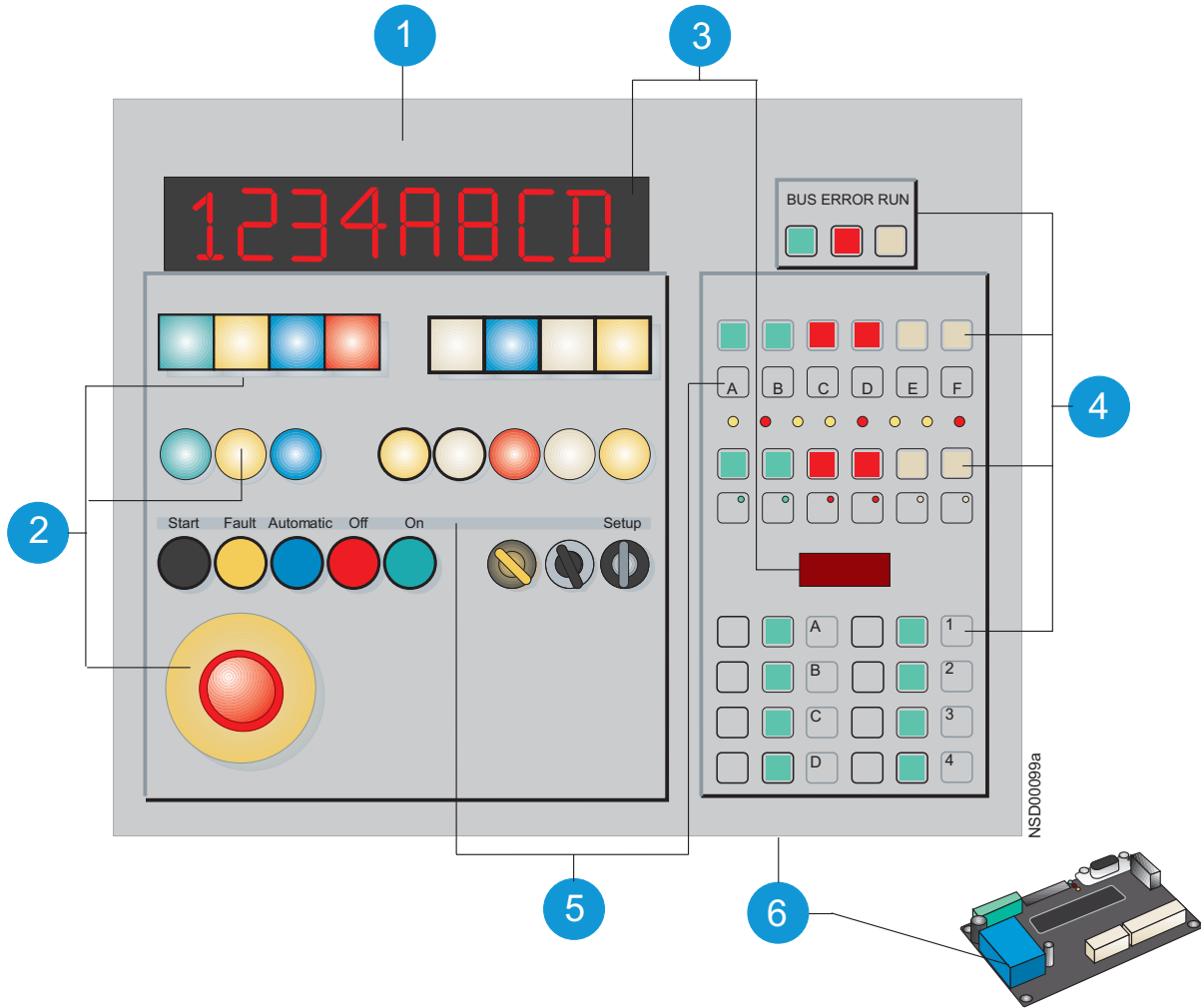
Number of command points	Length a	Spacing b	Spacing c
1	85	54	17.5
2	114	83	17.5
3	154	123	17.5
4	194	163	17.5
6	280	249	20.5

#### Application

SIGNUM 3SB4 complete operator panels are interfaces that permit a dialogue between man and machine.

The systems include the operator panel and the associated connection options.

#### Design



#### Design options

##### 1 Front plates

- Any size and shape,
- Various materials, e.g. blank or anodized aluminium, sheet steel, plastic; also foil coated;
- Various colours.

#### Equipment

- 2 Conventional 3SB1, 3SB2 and SIGNUM 3SB3 pushbuttons and indicator lights, round or square design,
- 3 Indication and display components, e.g. multiple 7-segment displays and LED text displays,
- 4 Membrane keyboards with and without embossing, with metal spring washers or short-stroke keys, with point illumination or fully-illuminated keypads,
- Integration of other flush-mounting equipment, e.g. instruments, potentiometer drives (not illustrated).

#### 5 Labelling

- Printed on the front plate, anodized;
- Direct on the operating surface of the pushbuttons or using inserts or backing plates;
- Using foils: printed, with push-in strips.

#### Connections

On request, all designs can be supplied ready to connect:

- 6 With interfaces for connection to an AS interface, PROFIBUS-DP and other fieldbus systems,
- Conventional with screw connections or with solder connections for assembly on printed circuit boards

#### Housing

On request, all versions are available in enclosures.

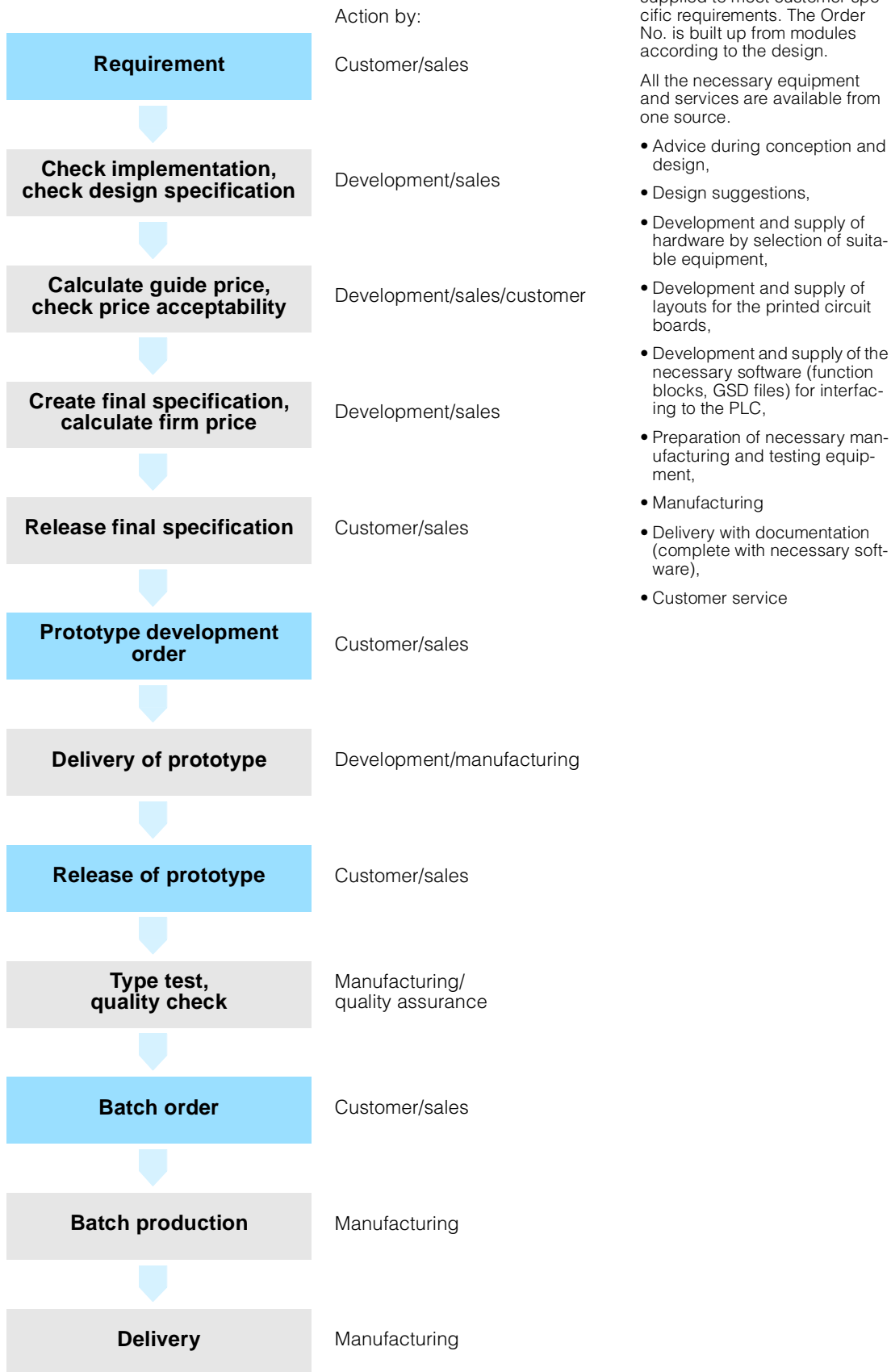
# Pushbutton Units and Indicator Lights

## SIGNUM 3SB4 Complete Operator Panels

### Introduction

#### Configuring

*Scheme for the development and manufacture of  
SIGNUM 3SB4 customer-specific operator systems*



# Pushbutton Units and Indicator Lights

## SIGNUM 3SB4 Complete Operator Panels

Customer-specific equipment

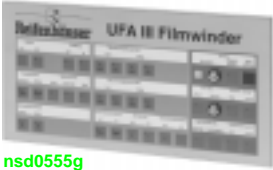

### Functions

For the AS interface, PROFIBUS-DP and other fieldbus systems, standardized electronic systems are available, with

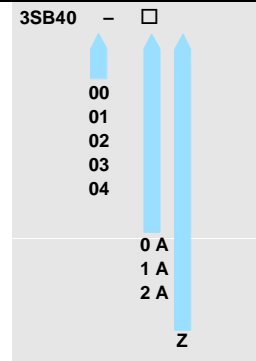
which any custom operator panel can be integrated into the bus environment without complicated programming.

This function is available for both 3SB4 membrane keyboards, short-stroke keys and LEDs, and for conventional 3SB3 control circuit devices.

### Selection and ordering data

Item/description	Degree of protection	DT	Order No.	Price 1 unit	PG	Weight approx. kg	Pack Unit
Operator panel with membrane keypad  nsd0555g	<b>Operator panel, only with membrane keypad</b>	IP 65	X	<b>3SB40 00-0AZ K0Y</b>	192	1	
Operator panel with SIGNUM 3SB3 control devices  nsd0556g	<b>Operator panel with membrane keypad and SIGNUM 3SB control devices</b>	IP 65	X	<b>3SB40 00-1AZ K0Y</b>	192	1	
	<b>Operator panel, with SIGNUM 3SB control devices only</b>	IP 65	X	<b>3SB40 00-2AZ K0Y</b>	192	1	
	<b>Foils (DIN A4) for inscription strips</b> for user inscriptions, also suitable for laser printer	white	X	<b>3SB49 03-0A</b>	192	0.1	10

### Structure of order numbers



### Connections

unwired  
conventional wiring  
with AS interface  
with PROFIBUS-DP interface  
with other field bus interfaces

### Design

equipped with membrane keypad  
equipped with membrane keypad and 3SB control devices.  
equipped with 3SB control devices.

### Customer-specific, general

In addition, Order Nos. for customer-specific designs can be specified after the 10th position of the Order No.

### Technical data

Field bus interfaces for complete SIGNUM 3SB4 operator panels	16E/16A AS interface	PROFIBUS-DP/I
Supply voltage	DC 24 V (via AS-i bus from AS interface)	DC 24 V
Static outputs	16	8
Static inputs	16	-
Multiplex LED	-	64
Multiplex keys	-	64
Serial interface	yes	yes
MFI interface	no	yes

# Pushbutton Units and Indicator Lights

## SIGNUM 3SB4 Complete Operator Panels

### LED display

#### Selection and ordering data

Design	Colour	DT	Order No.	Price	PG	Weight approx.	Pack
Character height, digits				1 unit		kg	Unit
<b>3SB 41 00</b>							
<b>Numeric LED display for flush mounting, with AS interface <sup>1)</sup></b> with 4 additional, isolated, digital inputs							
13 mm, 4 digits	red green	C	<b>3SF41 02-1B</b> <b>3SF41 02-2B</b>		192	0.3	1
30 mm, 4 digits	red green	C	<b>3SF41 02-1D</b> <b>3SF41 02-2D</b>		192	0.3	1
<b>Numeric LED display for flush mounting, with PROFIBUS-DP <sup>2)</sup></b>							
13 mm, 6 digits	red	C	<b>3SF41 03-1BG</b>		192	0.3	1
<b>Alphanumeric LED display for flush mounting, with PROFIBUS-DP <sup>2)</sup></b>							
17 mm, 8 digits	red	C	<b>3SF41 13-1EJ</b>		192	0.3	1
30 mm, 8 digits	red	C	<b>3SF41 13-1HJ</b>		192	0.3	1
<b>Numeric LED display for flush mounting, with A/D converter <sup>3)</sup></b>							
10 mm, 3 ½ digits	red	C	<b>3SB41 01-1AD</b>		192	0.3	1
13 mm, 3 ½ digits	red	C	<b>3SB41 01-1BD</b>		192	0.3	1
20 mm, 3 ½ digits	red	C	<b>3SB41 01-1CD</b>		192	0.3	1
Special settings for A/D converters <sup>3)</sup>			Wider end range	Additional charge	Measured variable/dimension	Additional charge	
for 3SB41 01-1AD-Z			per unit		per position		
for 3SB41 01-1BD-Z, 3SB41 01-1CD-Z			per unit		per position		



Nsd0162g

#### Technical data

LED displays for flush mounting		Numeric	Alphanumeric
Type of display		7-segment LED	LED dot-matrix display
Colour		red or green	red or green
Operational voltage		DC 24 V (via AS-i bus for AS-Interface)	24 V DC
Power consumption for digit height	10 mm 13 mm 17 mm 20 mm 30 mm	0.15 W per digit 0.15 W per digit – 0.2 W per digit 0.3 W per digit	– – 0.2 W per digit – 0.3 W per digit
Display	with AS-i bus with PROFIBUS-DP with A/D converter with A/D converter with A/D converter	0 – 9 and A, b, –, blank 0 – 9 and A, b, C, d, E, F, H, L, o, P, r, U 000 – ±1999 DC 0 – ±2 V, DC 0 – ±10 V, 0 – ±20 mA, 4 – 20 mA	– ASCII code – – –
Input ranges			
Display value		600 – 1999 625 – 1999 for 1 V: –75 – 275; for 5 V: 1730 – 1999 580 – 1999 at 4 mA: –435 – 75; at 20 mA: 580 – 1999	
Decimal point	with A/D converter	permanently adjustable to specification	–
Addressed		1 address per display. With AS interface: After the 15th address assignment, the display retains the last address	
Baud rate	with PROFIBUS-DP	12 Mbit/s	1.5 Mbit/s
Housing		Flush mounting housing in accordance with DIN, metal	
Fixing		Screw clamps in accordance with DIN	
Protection class		Front IP 54; with AS interface IP 65	
Ambient temperature	in operation during storage	0 to +50 °C –25 to +70 °C	0 – +45 °C –10 – +60 °C
EMC		In accordance with Guideline 89/336/EWG (or EMVG)	
Interference transmission		Basic specification EN 50 081-2, issued July 1993 Product specification EN 55 011, Group 1/2, Class A, issued March 1991 Limit value curve identical to EN 55 022	
Interference resistance		Basic specification EN 50 082-2, issued March 1995	

Further technical data available on the Internet.

Function block sample programs and GSD files are available for download from the Internet.

Internet: <http://www.siemens.de/bediensysteme>

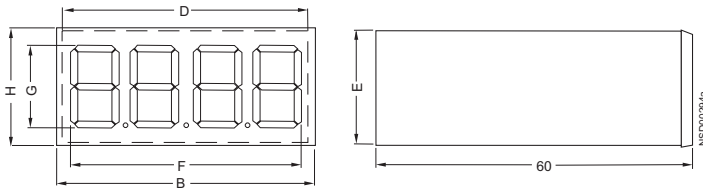
- For interfacing with the PLC (S5, S7-300, S7-400), function block sample programs are included with each delivery.
- The GSD file is included with every delivery.

- The input range and the measured variable must be stated in plain text in your order. Input ranges according to the table above without additional price.  
All other input ranges not listed here can be ordered by specifying the range in plain text.

This is subject to an extra charge.  
Indication of the measured variable or dimension, e. g. m, °C, mbar, m<sup>3</sup>/h, is also subject to an additional charge.

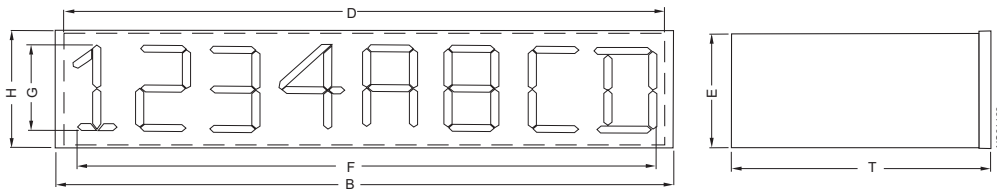
### Dimension drawings

#### Numerical LED display for flush mounting



Character height G	B	H	D	E	Panel cutout
10	48	24	43.5	20	$45^{+0.6} \times 22.2^{+0.3}$
13	96	24	92	20	$92^{+0.8} \times 22.2^{+0.3}$
20	96	48	92	43	$92^{+0.8} \times 45^{+0.3}$
30	144	48	138	43	$138^{+0.6} \times 45^{+0.6}$

#### Alphanumeric LED display for flush mounting



Character height G	F	B	H	D	E	T	Panel cutout
17	139	168	24	158	20	61	$165^{+1} \times 21^{+0.3}$
30	225	264	48	254	40	40	$255^{+1} \times 41^{+0.6}$

1  
2  
3  
4  
5  
6  
7  
8  
9

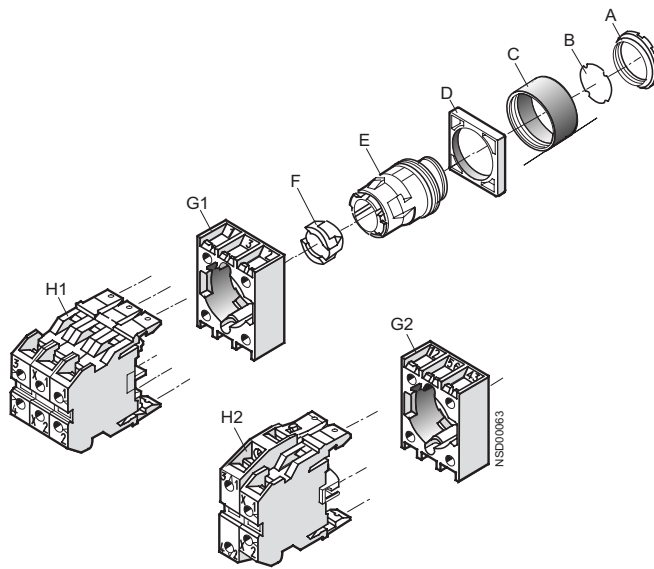
# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Introduction

#### Design

The 3SB1 pushbuttons, illuminated pushbuttons and indicator lights are supplied as elements – contact block, actuator – for flush mounting into control panels. Complete units are offered for the most commonly used applications.



- A Pushbutton, flat
- B Insert label for pushbuttons and illuminated pushbuttons, flat
- C Front ring
- D Frame for rectangular design
- E Collar with sealing ring
- F Thrust cap for pushbuttons for operating the centre block
- G1 Holder with identification Nos. 1-3-2
- G2 Holder with identification Nos. 1/2-5/6-4/3
- H1 Example for assembling holder G1:
  - Contact block, 1 N
  - BA 9s lampholder,
  - Contact block, 1 NC
- H2 Example for assembling holder G2:
  - Contact block, 1 NO + 1 NC,
  - BA 9s lampholder

#### Terminal designations to EN 50 013

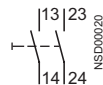
for 3SB1 control devices (to be noted with additional equipment)

Contact blocks and lampholders can be supplied with or without holders. When additional equipment is fitted, the adjacent table must be observed. A holder for five contact blocks may be ordered if more than three contact blocks are required.

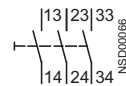
Identification No. 10



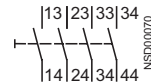
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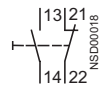
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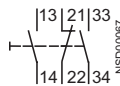
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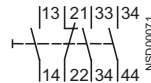
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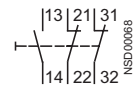
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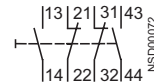
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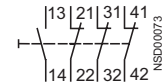
Identification No. 12



Identification No. 22



Identification No. 13



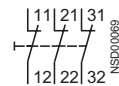
Identification No. 01



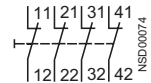
Identification No. 02



Identification No. 03



Identification No. 04



# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Introduction

#### Technical data according to IEC 60 947-5-1 (DIN VDE 0660 Part 200) and EN 418




<b>Rated insulation voltage <math>U_i</math></b>	Screw connection: 660 V Tab connection: 500 V	
<b>Pollution degree</b>	Class 3 according to DIN VDE 0110	
<b>Rated operational voltage <math>U_e</math></b>	Contact blocks with bolt connection: AC/DC 660 V Contact blocks with clamp-type terminals: AC 500 V BA 9s lampholders: AC/DC 250 V	
<b>Conventional free-air thermal current <math>I_{th}</math></b>	10 A	
<b>Rated operational currents <math>I_e</math></b> The values in brackets apply to clamp-type terminals 2 × (2.8–0.8)	<b><math>I_e/AC-12</math></b> at 24 V 10 A 110 V 10 A 220/230 V 10 A 380/400 V 10 A  <b><math>I_e/DC-12</math></b> at 24 V 10 A (10 A) 48 V 8 A (8 A) 110 V 3.5 A (3.5 A) 220 V 1 A (1 A)	<b><math>I_e/AC-15</math></b> 6 A (4 A) 6 A (4 A) 6 A (4 A) 4 A (3 A)  <b><math>I_e/DC-13</math></b> 10 A (10 A) 4 A (4 A) 1.2 A (1.2 A) 0.4 A (0.4 A)
<b>Ⓢ, Ⓜ and Ⓡ data</b>		
<b>Rated voltage</b> • Contact blocks • Indicator lights	1 NO, 1 NC, 1 NO + 1 NC: 600 V AC; 2 NO, 2 NC: above AC 300 V same polarity only Lampholders: 125 V AC, max. 2.5 W, BA 9s Lampholders with transformer: 120, 240, 480, 575 V/6 V, 50/60 Hz, 1.5 VA Voltage reducers: AC 240 V	
<b>Continuous current</b>	10 A	
<b>Switching capacity</b>	10 A, heavy-duty	
<b>Contact stability</b> Test voltage/test current	5 V/1 mA	
<b>Short-circuit protection</b> (without any welding according to DIN VDE 0660, Part 200) • DIAZED fuse left, utilization category gL/gG • Miniature circuit-breaker with G characteristic acc. to DIN VDE 0641	10 A TDz, 16 A Dz 10 A	
<b>Mechanical endurance</b> • Pushbuttons and contact blocks • Actuators, rotary or latching • Illuminated pushbuttons	10 × 10 <sup>6</sup> operating cycles 3 × 10 <sup>5</sup> operating cycles 3 × 10 <sup>6</sup> operating cycles	
<b>Electrical endurance</b> • with AC-15 duty with 3TF3, 3TF40 to 3TF43 contactors • when breaking $I_e/AC-15$ at 220/230 V	10 × 10 <sup>6</sup> operating cycles 5 × 10 <sup>5</sup> operating cycles	
<b>Operating frequency</b>	1000 operating cycles/hour	
<b>Climatic stress</b>	Climate proof; suitable for use in marine switchboards	
<b>Ambient temperature</b> • using LEDs or for non-illuminated devices • using illuminated devices with incandescent lamps	–25 to +70 °C –25 to +60 °C	
<b>Degree of protection</b> acc. to DIN VDE 0470 • Pushbuttons, illuminated pushbuttons and indicator lights, round version, with protective cap) (Use protective caps for conductive liquids) • Audible signal devices, contact blocks (control rooms) behind the front panel • Contact blocks (terminals) and lampholders (terminals and con- trol rooms) behind the front panel	IP 65 IP 67  IP 40  IP 20	
<b>Cable cross-sections</b> • Screw connection: – finely stranded with end sleeves – solid – solid with end sleeves to DIN 46 228 • Tab connection: with tab connections for push-on sleeves to DIN 46 247	2 × 0.5 to 1.5 mm <sup>2</sup> 2 × 0 to 2.5 mm <sup>2</sup> 2 × 0.5 to 0.75 mm <sup>2</sup>  1 NO, 1 NC, BA 9s: tab connector 2.8–0.8 mm to accept receptacles 2.8–0.25 (... 0.25 mm <sup>2</sup> ) 2.8–0.5 (... 0.5 mm <sup>2</sup> ) or 2.8–1 (... 1 mm <sup>2</sup> )	
<b>Safety measures</b>	Safety requirements are not met automatically when the actuators and lens assemblies are mounted on metal front plates and enclosures. When mounted in insulated enclosures, the "protective insulation" safety requirements are met. 3SB18 metal enclosures can be made to meet these requirements when the earthing termi- nal inside the enclosure is used.	
<b>Shock resistance</b> according to IEC 60 068, Part 2–27  Shock duration Shock form	≤ 50 g all device (for exceptions see next line) ≤ 30 g lamp transformer (long); device with incandescent lamps 11 ms Half-sine	

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Complete units

#### Selection and ordering data

Version	Colour of actuator	Contact blocks	DT	Order No.	Price	PG	Weight approx.	Pack	
		Version	▶	For Order No. suffixes see below Preferred type	1 unit		kg	Unit	
Pushbuttons and illuminated pushbuttons with flush pushbutton 	<b>Pushbuttons with flat button</b>								
	black	1 NO	▶	<b>3SB12 02-0AB ..</b>		102	0.03	1	
	black	1 NC	B	<b>3SB12 03-0AB ..</b>		102			
	red	1 NC	▶	<b>3SB12 03-0AC ..</b>		102			
	green	1 NO	▶	<b>3SB12 02-0AE ..</b>		102			
	white	1 NO	▶	<b>3SB12 02-0AG ..</b>		102			
	clear <sup>1)</sup>	1 NO	B	<b>3SB12 02-0AH ..</b>		102			
	black	1 NO + 1 NC	B	<b>3SB12 01-0AB ..</b>		102			
	red	1 NO + 1 NC	B	<b>3SB12 01-0AC ..</b>		102			
	green	1 NO + 1 NC	B	<b>3SB12 01-0AE ..</b>		102			
	white	1 NO + 1 NC	B	<b>3SB12 01-0AG ..</b>		102			
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB12 01-0AH ..</b>		102			
	<b>Illuminated pushbuttons with flat button</b>								
	with BA 9s lamp holder	red	1 NC	B	<b>3SB12 07-0AC ..</b>		102	0.04	1
	green	1 NO	▶	<b>3SB12 06-0AE ..</b>		102			
	blue	1 NO	B	<b>3SB12 06-0AF ..</b>		102			
	clear <sup>1)</sup>	1 NO	▶	<b>3SB12 06-0AH ..</b>		102			
	red	1 NO + 1 NC	B	<b>3SB12 05-0AC ..</b>		102			
	green	1 NO + 1 NC	B	<b>3SB12 05-0AE ..</b>		102			
	blue	1 NO + 1 NC	B	<b>3SB12 05-0AF ..</b>		102			
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB12 05-0AH ..</b>		102			
Operational voltage AC/DC 24 V with BA 9s lampholder and 24 V lamp (3SX1 344)	red	1 NC	▶	<b>3SB12 82-0AC ..</b>		102	0.04	1	
	green	1 NO	▶	<b>3SB12 83-0AE ..</b>		102			
	blue	1 NO	B	<b>3SB12 83-0AF ..</b>		102			
	clear <sup>1)</sup>	1 NO	▶	<b>3SB12 83-0AH ..</b>		102			
	red	1 NO + 1 NC	B	<b>3SB12 84-0AC ..</b>		102			
	green	1 NO + 1 NC	B	<b>3SB12 84-0AE ..</b>		102			
	blue	1 NO + 1 NC	B	<b>3SB12 84-0AF ..</b>		102			
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB12 84-0AH ..</b>		102			
Operational voltage AC 220 V/230 V <sup>2)</sup> with BA 9s lampholder, with integral voltage reducer and 130 V lamp	red	1 NC	B	<b>3SB12 16-0AC ..</b>		102	0.05	1	
	green	1 NO	B	<b>3SB12 14-0AE ..</b>		102			
	blue	1 NO	B	<b>3SB12 14-0AF ..</b>		102			
	clear <sup>1)</sup>	1 NO	B	<b>3SB12 14-0AH ..</b>		102			
	red	1 NO + 1 NC	B	<b>3SB12 80-0AC ..</b>		102			
	green	1 NO + 1 NC	B	<b>3SB12 80-0AE ..</b>		102			
	blue	1 NO + 1 NC	B	<b>3SB12 80-0AF ..</b>		102			
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB12 80-0AH ..</b>		102			
Selector switch	<b>Selector switch, 2 positions</b>								
	Switching sequence O-I, latching								
	black	1 NO	▶	<b>3SB12 02-2AB ..</b>		102	0.05	1	
	1 NO + 1 NC	B	<b>3SB12 01-2AB ..</b>		102				
<b>Selector switch, 3 positions</b>									
Switching sequence I-O-II, latching									
black	1 NO, 1 NO	▶	<b>3SB12 10-2DB ..</b>		102	0.05	1		
	1 NO + 1 NC, 1 NO + 1 NC	B	<b>3SB12 08-2DB ..</b>		102				
	1 NO + 1 NC, 1 NO + 1 NC	B							
Key-operated switch	non-latching								
	black	1 NO, 1 NO	▶	<b>3SB12 10-2EB ..</b>		102	0.05	1	
		1 NO + 1 NC, 1 NO + 1 NC	B	<b>3SB12 08-2EB ..</b>		102			
<b>Key-operated switch, 2 positions</b>									
Switching sequence O-I, latching <sup>3)</sup>									
SSG 10	1 NO	▶	<b>3SB12 02-4LB ..</b>		102	0.15	1		
	1 NO + 1 NC	B	<b>3SB12 01-4LB ..</b>		102				

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB12 ... □□</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

1) Inscription possible using insert label.

2) Max. voltage 242 V.





3) Key withdrawable in positions O and I.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

Complete units

### Selection and ordering data

Version	Colour of actuator or screw lens	Contact blocks	DT	Order No.	Price	Weight approx.	Pack
		Version	▶	For Order No. suffixes see below Preferred type	1 unit	kg	Unit
<b>Indicator light</b>  <b>Indicator lights</b> with concentric rings with BA 9s lamp holder  Operational voltage AC/DC 24 V with BA 9s lampholder and 24 V lamp (3SX1 344)  Operational voltage AC 220/230 V <sup>1)</sup> with BA 9s lampholder, with integral voltage reducer and 130 V lamp	red yellow green white clear  red yellow green white clear  red yellow green white clear	1 NO 1 NO + 1 NC	▶ B ▶ ▶ ▶ ▶ B ▶ B ▶ ▶ ▶ ▶ B	<b>3SB12 04-6BC06</b>	102	0.04	1
				<b>3SB12 04-6BD06</b>	102		
				<b>3SB12 04-6BE06</b>	102		
				<b>3SB12 04-6BG06</b>	102		
				<b>3SB12 04-6BH06</b>	102		
				<b>3SB12 81-6BC06</b>	102	0.04	1
				<b>3SB12 81-6BD06</b>	102		
				<b>3SB12 81-6BE06</b>	102		
				<b>3SB12 81-6BG06</b>	102		
				<b>3SB12 81-6BH06</b>	102		
				<b>3SB12 12-6BC06</b>	102	0.04	1
				<b>3SB12 12-6BD06</b>	102		
				<b>3SB12 12-6BE06</b>	102		
				<b>3SB12 12-6BG06</b>	102		
				<b>3SB12 12-6BH06</b>	102		
<b>EMERGENCY-STOP command devices to EN 418 with yellow backing plate, Ø 80 mm, with inscription, can also be used with 3TK28 contactor safety combinations (see Part 8)</b>							
<b>Mushroom push-pull button, latching</b>  <b>Mushroom push-pull button, Ø 40 mm, latching</b> Unlatching by pulling the mushroom head	red	1 NO 1 NO + 1 NC	→ → B	<b>3SB12 03-1LC ..</b>	102	0.07	1
				<b>3SB12 01-1LC ..</b>	102		
 <b>Mushroom pushbutton, Ø 40 mm, latching</b> unlatching by turning the mushroom head anticlockwise	red	1 NO 1 NO + 1 NC	→ → B	<b>3SB12 03-1AC ..</b>	102	0.06	1
				<b>3SB12 01-1AC ..</b>	102		
 <b>Mushroom pushbutton, Ø 40 mm<sup>2)</sup>, with positive latching</b> unlatching by turning the mushroom head anticlockwise	red	1 NO 1 NO + 1 NC	→ → B	<b>3SB12 03-1MC00</b>	102	0.06	1
				<b>3SB12 01-1MC00</b>	102		

### Order No. suffix

Version	Order No. suffix	Additional charge
Actuator with moulded plastic front ring, black	<b>3SB12 . . . . . 01</b>	without
Actuator with metal front ring	<b>3SB12 . . . . . 20</b>	

→ Positive opening according to IEC 60 947-5-1, appendix K, and DIN VDE 0660 Part 200.  
 1) Max. voltage 242 V.

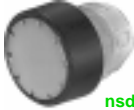



2) For additional functions, the following can be used:  
 With 1 NO: 3SB14 00-0R contact block,  
 With 1 NO + 1 NC: 3SB14 00-0V contact block.  
 The 2 NO contact block cannot be used.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Pushbuttons

#### Selection and ordering data

Version	Colour of actuator	Inscription	Order No.	Price	PG	Weight approx.	Pack		
			For Order No. suffixes see below						
			► Preferred type	1 unit		kg	Unit		
Pushbutton and illuminated pushbutton with flat button 	<b>Pushbutton with flat button</b>	black	B	<b>3SB10 00-0AB ..</b>	102	0.01	10		
		red	►	<b>3SB10 00-0AC ..</b>	102				
		yellow	B	<b>3SB10 00-0AD ..</b>	102				
		green	B	<b>3SB10 00-0AE ..</b>	102				
		blue	B	<b>3SB10 00-0AF ..</b>	102				
		white	B	<b>3SB10 00-0AG ..</b>	102				
		clear <sup>1)</sup>	B	<b>3SB10 00-0AH ..</b>	102				
Illuminated pushbutton with flat button with moulded plastic front ring	<b>Illuminated pushbutton with flat button</b>	red	►	<b>3SB10 01-0AC ..</b>	102	0.01	10		
		yellow <sup>1)</sup>	B	<b>3SB10 01-0AD ..</b>	102				
		green	►	<b>3SB10 01-0AE ..</b>	102				
		blue	B	<b>3SB10 01-0AF ..</b>	102				
		white	B	<b>3SB10 01-0AG ..</b>	102				
		clear <sup>1)</sup>	B	<b>3SB10 01-0AH ..</b>	102				
Pushbutton with recessed front ring 	<b>Pushbutton with recessed front ring<sup>2)</sup></b>		B	<b>3SB10 00-0AA22</b>	102	0.027	1		
		<b>Pushbutton with flat pushbutton, button not exchangeable</b>							
	with moulded plastic front ring		black	Inscription O	B	<b>3SB10 00-0AB72</b>	102	0.01	10
			black	Inscription ⊕	B	<b>3SB10 00-0AB74</b>	102		
			red	Inscription O	B	<b>3SB10 00-0AW41</b>	102		
			green	Inscription I	B	<b>3SB10 00-0AV40</b>	102		
			white	Inscription I	B	<b>3SB10 00-0AG70</b>	102		
			black	Inscription O	B	<b>3SB10 00-0AB73</b>	102		
	with metal front ring		black	Inscription ⊕	B	<b>3SB10 00-0AB75</b>	102	0.02	10
			red	Inscription O	B	<b>3SB10 00-0AW43</b>	102		
green			Inscription I	B	<b>3SB10 00-0AV42</b>	102			
white			Inscription I	►	<b>3SB10 00-0AG71</b>	102			
Pushbutton and illuminated pushbutton with raised button 	<b>Pushbutton with raised button</b>	black	B	<b>3SB10 00-0LB ..</b>	102	0.02	10		
		red	B	<b>3SB10 00-0LC ..</b>	102				
		yellow	B	<b>3SB10 00-0LD ..</b>	102				
	<b>Illuminated pushbutton with raised button</b>	blue	B	<b>3SB10 00-0LF ..</b>	102				
		clear <sup>1)</sup>	B	<b>3SB10 00-0LH ..</b>	102				
		red	B	<b>3SB10 01-0LC ..</b>	102				
	yellow <sup>1)</sup>	B	<b>3SB10 01-0LD ..</b>	102					
	green	B	<b>3SB10 01-0LE ..</b>	102					
	blue	B	<b>3SB10 01-0LF ..</b>	102					
	clear <sup>1)</sup>	B	<b>3SB10 01-0LH ..</b>	102					
		B	<b>3SB10 00-0LH ..</b>	102					
Pushbutton, latching or locking 	<b>Pushbutton with raised button, latching</b>	red	B	<b>3SB10 00-0MC ..</b>	102	0.03	5		
		black	B	<b>3SB10 00-0MB ..</b>	102				
	<b>Pushbutton with raised button, locking</b>	red	B	<b>3SB10 00-0NC ..</b>	102	0.03	5		

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB10 ..-.. □□</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

1) Inscription possible using insert label.










2) 30.5 mm hole required in the mounting panel.  
Without button. The button must be ordered separately in the desired colour, see page 9/111.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### EMERGENCY-STOP mushroom pushbuttons

#### Selection and ordering data

Version	Colour of actuator	Lock No.	DT	Order No.	Price	PG	Weight approx.	Pack
				For Order No. suffixes see below				
				▶ Preferred type	1 unit	kg	Unit	
<b>EMERGENCY-STOP command devices to EN 418</b> <i>can also be used with 3TK28 contactor safety combinations (see Part 8)</i>								
 Mushroom push-pull button nsd0175g	<b>Mushroom push-pull button, Ø 40 mm, with spring action, latching<sup>1)</sup></b> unlatching by pulling	red bg974024		▶	<b>3SB10 00-1LC ..</b>	102	0.04	5
	<b>Mushroom pushbutton, latching<sup>1)</sup></b> unlatching by turning the mushroom head anticlockwise	red bg974035			<b>3SB10 00-1FC ..</b>	102	0.02	5
 Mushroom pushbutton, latching nsd0180g	Ø 30 mm	red		B	<b>3SB10 00-1AC ..</b>	102	0.03	5
	Ø 40 mm	red		B	<b>3SB10 00-1HC ..</b>	102	0.03	1
	Ø 70 mm	red		B	<b>3SB10 00-1PC20</b>	102	0.04	1
 Mushroom pushbutton with positive latching nsd0176g	<b>Mushroom pushbutton, Ø 40 mm, with positive latching<sup>1)</sup> 2)</b> unlatching by turning the mushroom head anticlockwise	red bg984014		B	<b>3SB10 00-1MC00</b>	102	0.03	5
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching, with CES lock<sup>1)</sup> 2)</b> unlatching only by using the key; key withdrawable in ON and OFF positions (supplied with 2 keys)	red red bg984015	SSG 10 SSP 9		B	<b>3SB10 00-0TC00</b> <b>3SB10 00-0UC00</b>	102	0.04
 Mushroom pushbutton with positive latching and with lock nsd0177g	<b>Mushroom pushbutton, Ø 40 mm, with positive latching, with O.M.R. lock to FIAT spec.<sup>1)</sup> 2)</b> unlatching only by using the key, (supplied with 2 keys)	red bg984015	73037	B	<b>3SB10 00-0VC00</b>	102	0.04	1
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching, with BKS lock<sup>1)</sup> 2)</b> unlatching only by using the key; key withdrawable in ON and OFF positions (supplied with 2 keys)	red bg984015	1 NO		B	<b>3SB10 00-0WC00</b>	102	0.04
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching with IKON lock<sup>1)</sup> 2)</b> unlatching only by using the key; key withdrawable in ON and OFF positions (supplied with 2 keys)	red bg984015	360012 K1	B	<b>3SB10 00-0XC00</b>	102	0.04	1

For special designs see next page.

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB10 . . . . □□</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

1) The yellow backing plate must be ordered separately, (see page 9/110).



2) Only the following contact blocks are suitable: (see page 9/100):  
 With 1 NC: 3SB14 00-0C, with 1 NO + 1 NC: 3SB14 00-0V,  
 With 1 NO: 3SB14 00-0R, with 2 NC: 3SB14 00-0H.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Mushroom pushbuttons

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Pack
			For Order No. suffixes see below				
			▶ Preferred type	1 unit		kg	Unit
Mushroom pushbutton or illuminated mushroom pushbutton  nsd0179g	<b>Mushroom pushbutton, Ø 30 mm</b>	black	B <b>3SB10 00-1DB ..</b>		102	0.02	10
		yellow	B <b>3SB10 00-1DD ..</b>		102		
		green	B <b>3SB10 00-1DE ..</b>		102		
	<b>Mushroom pushbutton, Ø 40 mm</b>	black	▶ B <b>3SB10 00-1RB ..</b>		102	0.03	50
		yellow	B <b>3SB10 00-1RD ..</b>		102		
		green	B <b>3SB10 00-1RE ..</b>		102		
	<b>Illuminated mushroom pushbutton, Ø 30 mm</b>	yellow	B <b>3SB10 01-1DD ..</b>		102	0.02	10
		green	B <b>3SB10 01-1DE ..</b>		102		
		white	B <b>3SB10 01-1DG ..</b>		102		
	<b>Illuminated mushroom pushbutton, Ø 30 mm, latching</b> can be latched by depressing and turning clockwise; unlatching by turning anticlockwise	yellow	B <b>3SB10 01-1ED ..</b>		102	0.02	5
		green	B <b>3SB10 01-1EE ..</b>		102		
		clear	B <b>3SB10 01-1EH ..</b>		102		
Mushroom push-pull button  nsd0175g	<b>Mushroom push-pull button, Ø 40 mm, with spring action <sup>1)</sup></b>	black	B <b>3SB10 00-0KB ..</b>		102	0.04	5

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB10 . . . . □ □</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

#### Special designs

Version	Order No. (example) Code	Additional charge
Viton seals Use only where large amounts of coolant and lubricant are used. Ambient temperature 0 to + 60° C.	on request	
Diaphragm seal and sealing ring Available for the following actuators: Pushbuttons and illuminated pushbuttons with flush and raised button, mushroom pushbuttons, Ø 30 mm (momentary contact), and illuminated mushroom pushbuttons, Ø 30 mm. When ordering this version, append “-Z” to the order number and specify code “B03”.	<b>3SB10 00-0AB01-Z B03</b>	
Sealing ring Available for all pushbuttons, rotary drives and lens assemblies. When ordering this version, append “-Z” to the order number and specify code “B05”.	<b>3SB10 01-6BC06-Z B05</b>	






1) To be used with up to 3 contact blocks only.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Selector switches


#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Pack		
			For Order No. suffixes see below						
			► Preferred type	1 unit		kg	Unit		
<b>Selector switch, non-illuminated</b>									
 <p>Nsd0181g</p>	<b>Selector switches<sup>2)</sup> with 2 switching positions</b>								
	 <p>nss 00440g</p>	Switching sequence O-I, latching, 100° operating angle	non-illuminated	black	►	<b>3SB10 00-2AB ..</b>	102	0.02	10
				red	B	<b>3SB10 00-2AC ..</b>	102		
				green	B	<b>3SB10 00-2AE ..</b>	102		
				white	B	<b>3SB10 00-2AG ..</b>	102		
	illuminated <sup>1)</sup>	red	B	<b>3SB10 01-2AC ..</b>	102	0.02	10		
		yellow	B	<b>3SB10 01-2AD ..</b>	102				
		green	►	<b>3SB10 01-2AE ..</b>	102				
		blue	B	<b>3SB10 01-2AF ..</b>	102				
		clear	B	<b>3SB10 01-2AH ..</b>	102				
<b>Selector switch, illuminated</b>									
 <p>Nsd0182g</p>	 <p>nss 00441g</p>	Switching sequence O-I, non-latching (return from the right), 50° operating angle	non-illuminated	black	►	<b>3SB10 00-2BB ..</b>	102	0.02	10
				red	B	<b>3SB10 00-2BC ..</b>	102		
				green	B	<b>3SB10 00-2BE ..</b>	102		
				white	B	<b>3SB10 00-2BG ..</b>	102		
	illuminated <sup>1)</sup>	red	B	<b>3SB10 01-2BC ..</b>	102	0.02	10		
		yellow	B	<b>3SB10 01-2BD ..</b>	102				
		green	B	<b>3SB10 01-2BE ..</b>	102				
		blue	B	<b>3SB10 01-2BF ..</b>	102				
		clear	B	<b>3SB10 01-2BH ..</b>	102				
 <p>nss 00443g</p>	Switching sequence O-I, non-latching (return from the left), 50° operating angle	non-illuminated	black	B	<b>3SB10 00-2CB ..</b>	102	0.02	10	
			red	B	<b>3SB10 00-2CC ..</b>	102			

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB10 . . . . □□</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

#### Special design

Version	Order No. (example) Code	Additional charge
 <p>S-08</p> <p>The selector switches<sup>3)</sup>; switching sequence O-I, latching, are also available with 90° switching angle.</p> <p>When ordering this version, append “-Z” to the order number and specify code “C02”.</p>	<b>3SB10 00-2AB01-Z C02</b>	

1) BA 9s lampholders and lamps with BA 9s base are used for illumination.

2) If a protective cap for IP 67 is required, a black selector switch of the previous shape can be ordered by supplementing the Order No. with “-Z” and Order Code “M01”. This accepts protective cap 3SB19 02-1AW; see page 9/111.







3) Not for illuminated selector switches.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Selector switches

#### Selection and ordering data

Version	Colour of actuator	DT	Order No.	Price	PG	Weight approx.	Pack			
			For Order No. suffixes see below							
			▶ Preferred type	1 unit		kg	Unit			
<b>Selector switches<sup>2)</sup> with 3 switching positions</b>										
Selector switch, non-illuminated  <b>Nsd0181g</b>	 Switching sequence I-O-II, latching, 2 × 50° operating angle <b>nss 00448g</b>	non-illuminated	black	▶ <b>3SB10 00-2DB ..</b>	102	0.02	10			
			red	B <b>3SB10 00-2DC ..</b>	102					
			green	B <b>3SB10 00-2DE ..</b>	102					
			white	B <b>3SB10 00-2DG ..</b>	102					
		illuminated <sup>1)</sup>	red	B <b>3SB10 01-2DC ..</b>	102					
			yellow	B <b>3SB10 01-2DD ..</b>	102					
			green	B <b>3SB10 01-2DE ..</b>	102					
			blue	B <b>3SB10 01-2DF ..</b>	102					
	clear	B <b>3SB10 01-2DH ..</b>	102							
Selector switch, illuminated  <b>Nsd0182g</b>	 Switching sequence I-O-II, non-latching (with return from the right and left), 2 × 50° operating angle <b>nss 00445g</b>	non-illuminated	black	▶ <b>3SB10 00-2EB ..</b>	102	0.02	10			
			red	B <b>3SB10 00-2EC ..</b>	102					
			green	B <b>3SB10 00-2EE ..</b>	102					
			white	B <b>3SB10 00-2EG ..</b>	102					
		illuminated <sup>1)</sup>	red	B <b>3SB10 01-2EC ..</b>	102					
			yellow	B <b>3SB10 01-2ED ..</b>	102					
			green	B <b>3SB10 01-2EE ..</b>	102					
			blue	B <b>3SB10 01-2EF ..</b>	102					
			clear	B <b>3SB10 01-2EH ..</b>	102					
		 Switching sequence I-O-II, latching to the right, non-latching to the left (return from the left), 2 × 50° operating angle <b>nss 00446g</b>	non-illuminated <sup>3)</sup>	black	B <b>3SB10 00-2GB ..</b>			102	0.02	10
				red	B <b>3SB10 00-2GC ..</b>			102		
				green	B <b>3SB10 00-2GE ..</b>			102		
	white		B <b>3SB10 00-2GG ..</b>	102						
 Switching sequence I-O-II, latching to the left, non-latching to the right (return from the right), 2 × 50° operating angle <b>nss 00447g</b>	non-illuminated <sup>3)</sup>	black	B <b>3SB10 00-2FB ..</b>	102	0.02	10				
		red	B <b>3SB10 00-2FC ..</b>	102						
		green	B <b>3SB10 00-2FE ..</b>	102						
		white	B <b>3SB10 00-2FG ..</b>	102						

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB10 . . . . □□</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

1) BA 9s lampholders and lamps with BA 9s base are used for illumination.

2) If a protective cap for IP 67 is required, a black selector switch of the previous shape can be ordered by supplementing the Order No. with “-Z” and Order Code “M01”. This accepts protective cap 3SB19 02-1AW; see page 9/111.





3) Also available as illuminated selector switch. Append “-Z” to the order number and specify “-Z = illuminated selector switch” and the required colour in plain text.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

Actuators

### Selection and ordering data

Version	Colour of actuator/ key remov- able in position	DT	Order No.  For Order No. suffixes see below	Price  1 unit	PG	Weight approx.  kg	Pack  Unit
 nsd0178g	<b>Pushbutton with wobble stick</b> operation from any direction		<b>3SB10 00-7QA01</b>		102	0.02	1
 Nsd0183g	<b>Toggle, 2 positions</b> OFF position downwards, ON position upwards, latching	white	<b>3SB10 00-7HG . .</b>		102	0.02	10
 Nsd0184g	<b>Pushbuttons with extended stroke<sup>1)</sup></b> Pushbuttons with 12 mm stroke, for ring nut fixing (included as standard). Accepts 3SX1 335 extension plunger	with flat button clear, trans- parent <sup>2)</sup> red, trans- parent <sup>2)</sup>	<b>3SB10 00-0EH02</b> <b>3SB10 00-0EC02</b>		102	0.02	10
 Nsd0185g	<b>Drive for potentiometer<sup>1)3)</sup></b> For installation of potentiometers with shaft, Ø 6 mm, 30 to 32 mm long, according to DIN 41 450		<b>3SB10 00-7CH07</b>		102	0.02	1

### Order No. suffix

Version	Order No. suffix <b>3SB10 . . . . . □ □</b>	Additional charge
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

1) Cannot be used with 3SB18 enclosures.  
2) Other colours on request.







3) The potentiometer is not included in the scope of supply. Plate holder for SIGNUM 3SB3, see page 9/55.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Key-operated switches

#### Selection and ordering data

Version	Type	Lock No./colour	Key remov-able in position	DT	Order No.	Price	PG	Weight approx.	Pack
					For Order No. suffixes see below				
					► Preferred type	1 unit		kg	Unit
<b>CES key-operated switch</b> <i>Key-operated switches with 2 keys, 2 switching positions</i>									
 <p>nsd0578g</p>	 <p>Switching sequence O-I, CES latching, 100° operating angle</p> <p>nss 00440g</p>	SSG 10	O + I	B	<b>3SB10 00-4LB ..</b>	102	0.12	1	
			O	►	<b>3SB10 00-4LA ..</b>	102			
		LSG 1	I	B	<b>3SB10 00-4LC ..</b>	102			
			O + I	B	<b>3SB10 00-4LM ..</b>	102			
		IKON 360012 K1	O	B	<b>3SB10 00-4LN ..</b>	102			
			O	B	<b>3SB10 00-5LB ..</b>	102			
		BKS S 1	O + I	B	<b>3SB10 00-5LA ..</b>	102			
			O	B	<b>3SB10 00-5AB ..</b>	102			
		E1 for VW <sup>1)</sup>	O	B	<b>3SB10 00-5AA ..</b>	102			
			I	B	<b>3SB10 00-5AC ..</b>	102			
E2 for VW <sup>1)</sup>	O + I	B	<b>3SB10 00-5AQ ..</b>	102					
	O	B	<b>3SB10 00-5AR ..</b>	102					
E7 for VW <sup>1)</sup>	O + I	B	<b>3SB10 00-5AH ..</b>	102					
	O	B	<b>3SB10 00-5AJ ..</b>	102					
E9 for VW <sup>1)</sup>	O + I	B	<b>3SB10 00-5AK ..</b>	102					
	O	B	<b>3SB10 00-5AL ..</b>	102					
O.M.R. <sup>2)</sup>	O + I	B	<b>3SB10 00-5AS ..</b>	102					
	O	B	<b>3SB10 00-5AT ..</b>	102					
 <p>nsd0579g</p>	 <p>Switching sequence O-I, CES non-latching (with return from the right), 50° operating angle</p> <p>nss 00441g</p>	73038 light blue	O + I	B	<b>3SB16 00-4AB ..</b>	102	0.14	1	
			O	B	<b>3SB16 00-4AA ..</b>	102			
		73037 red	I	B	<b>3SB16 00-4AC ..</b>	102			
			O + I	B	<b>3SB16 00-4LB ..</b>	102			
		73034 black	O	B	<b>3SB16 00-4LA ..</b>	102			
			I	B	<b>3SB16 00-4LC ..</b>	102			
		73033 yellow	O + I	B	<b>3SB16 00-5AB ..</b>	102			
			O	B	<b>3SB16 00-5AA ..</b>	102			
		O.M.R. <sup>2)</sup>	I	B	<b>3SB16 00-5AC ..</b>	102			
			O	B	<b>3SB16 00-5LB ..</b>	102			
O.M.R. <sup>2)</sup>	O	B	<b>3SB16 00-5LA ..</b>	102					
	I	B	<b>3SB16 00-5LC ..</b>	102					
 <p>Nsd0190g</p>	 <p>Switching sequence O-I, CES non-latching (with return from the right), 50° operating angle</p> <p>nss 00441g</p>	SSG 10	O	B	<b>3SB10 00-4 MA ..</b>	102	0.12	1	
			LSG 1	O	B	<b>3SB10 00-4 MN ..</b>			102
		IKON 360012 K1	O	B	<b>3SB10 00-5 MA ..</b>	102			
			O	B	<b>3SB10 00-5 BA ..</b>	102			
		BKS S 1	O	B	<b>3SB10 00-5 BA ..</b>	102			
			O	B	<b>3SB16 00-4BA ..</b>	102			
		O.M.R. <sup>2)</sup>	O	B	<b>3SB16 00-4BA ..</b>	102			
			O	B	<b>3SB16 00-4MA ..</b>	102			
		73034 black	O	B	<b>3SB16 00-5BA ..</b>	102			
			O	B	<b>3SB16 00-5MA ..</b>	102			
73033 yellow	O	B	<b>3SB16 00-5MA ..</b>	102					
	O	B	<b>3SB16 00-5MA ..</b>	102					

For special designs, see page 9/95.

Order No. suffix	Version	Order No. suffix	Additional charge
		<b>3SB10 ... □ □</b>	
	Actuator with moulded plastic front ring, black	<b>01</b>	without
	Actuator with metal front ring	<b>20</b>	

1) Supplied without key.






2) In accordance with FIAT standards; can also be used by other users.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Key-operated switches

#### Selection and ordering data

Version	Type	Lock No./colour	Key remov-able in position	DT	Order No.	Price	PG	Weight approx.	Pack		
					For Order No. suffixes see below	1 unit		kg	Unit		
<b>CES key-operated switch</b> <i>Key-operated switches with 2 keys, 2 switching positions</i>											
 <p>nsd0580g</p>	 <p>Switching sequence I-O, non-latching (with return from the left), operating angle 50°</p> <p>nss 00443g</p>	CES	SSG 10	I	B	<b>3SB10 00-4NC ..</b>	102	0.12	1		
		BKS	S 1	I	B	<b>3SB10 00-5CC ..</b>	102	0.13	1		
		O.M.R. <sup>1)</sup>	73038	I	B	<b>3SB16 00-4CC ..</b>	102	0.14	1		
			73037	I	B	<b>3SB16 00-4NC ..</b>	102				
			73034	I	B	<b>3SB16 00-5CC ..</b>	102				
	73033	I	B	<b>3SB16 00-5NC ..</b>	102						
<b>BKS key-operated switch</b> <i>Key-operated switches with 2 keys and 3 switching positions</i>											
 <p>nsd0581g</p>	 <p>Switching sequence I-O-II, latching, 2 x 50° operating angle</p> <p>nss 00448g</p>	CES	SSG 10	I + O + II	B	<b>3SB10 00-4 PB ..</b>	102	0.12	1		
				O	B	<b>3SB10 00-4 PA ..</b>	102				
				I + II	B	<b>3SB10 00-4 PE ..</b>	102				
				I	B	<b>3SB10 00-4 PC ..</b>	102				
				II	B	<b>3SB10 00-4 PD ..</b>	102				
		IKON	360012 K1	I + O + II	B	<b>3SB10 00-5PB ..</b>	102	0.13	1		
				O	B	<b>3SB10 00-5PA ..</b>	102				
				I + II	B	<b>3SB10 00-5PE ..</b>	102				
		BKS	S 1	I + O + II	B	<b>3SB10 00-5DB ..</b>	102	0.13	1		
				O	B	<b>3SB10 00-5DA ..</b>	102				
				I + II	B	<b>3SB10 00-5DE ..</b>	102				
				I	B	<b>3SB10 00-5DC ..</b>	102				
				II	B	<b>3SB10 00-5DD ..</b>	102				
<b>O.M.R. key-op. switch</b>											
 <p>nsd0190g</p>		O.M.R. <sup>1)</sup>	73038	I + O + II	B	<b>3SB16 00-4DB ..</b>	102	0.14	1		
				light blue	O	B	<b>3SB16 00-4DA ..</b>	102			
					I + II	B	<b>3SB16 00-4DG ..</b>	102			
					73037	I + O + II	B	<b>3SB16 00-4PB ..</b>	102		
					red	O	B	<b>3SB16 00-4PA ..</b>	102		
				I + II	B	<b>3SB16 00-4PG ..</b>	102				
			73034	I + O + II	B	<b>3SB16 00-5DB ..</b>	102				
			black	O	B	<b>3SB16 00-5DA ..</b>	102				
				I + II	B	<b>3SB16 00-5DG ..</b>	102				
			73033	I + O + II	B	<b>3SB16 00-5PB ..</b>	102				
			yellow	O	B	<b>3SB16 00-5PA ..</b>	102				
				I + II	B	<b>3SB16 00-5PG ..</b>	102				

For special designs, see page 9/95.

Order No. suffix	Version	Order No. suffix	Additional charge
		<b>3SB10 . . . . . □ □</b>	
	Actuator with moulded plastic front ring, black	<b>01</b>	without
	Actuator with metal front ring	<b>20</b>	







1) In accordance with FIAT standards; can also be used by other users.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Key-operated switches

#### Selection and ordering data

Version	Type	Lock No./colour	Key removable in position	DT	Order No.	Price	PG	Weight approx.	Pack pieces	
					For Order No. suffixes see below					
					► Preferred type	1 unit	kg		Unit	
<b>Key-operated switches with 2 keys and 3 switching positions</b>										
 <p>nsd0580g</p>	 <p>Switching sequence I-O-II, non-latching (return from the right and left), 2 x 50° operating angle</p>	CES	SSG 10	O	► 3SB10 00-4QA ..		102	0.12	1	
		IKON	360012 K1	O	B	3SB10 00-5QA ..		102	0.13	1
		BKS	S 1	O	B	3SB10 00-5EA ..		102	0.13	1
		O.M.R. <sup>1)</sup>	73038 light blue	O	B	3SB16 00-4EA ..		102	0.14	1
			73037 red	O	B	3SB16 00-4QA ..		102		
			73034 black	O	B	3SB16 00-5EA ..		102		
			73033 yellow	O	B	3SB16 00-5QA ..		102		
 <p>nss 00446g</p> <p>nsd0581g</p>	 <p>Switching sequence I-O-II, latching to the right, non-latching to the left (with return from the left), 2 x 50° operating angle</p>	CES	SSG 10	O + II	B 3SB10 00-4SG ..		102	0.12	1	
					B	3SB10 00-4SA ..		102		
					B	3SB10 00-4SD ..		102		
		IKON	360012 K1	O	B	3SB10 00-5SA ..		102	0.13	1
				II	B	3SB10 00-5SD ..		102		
		BKS	S 1	O + II	B	3SB10 00-5GG ..		102	0.13	1
				O	B	3SB10 00-5GA ..		102		
				II	B	3SB10 00-5GD ..		102		
		O.M.R. <sup>1)</sup>	73038 light blue	O	B	3SB16 00-4GA ..		102	0.14	1
			73037 red	II	B	3SB16 00-4GD ..		102		
	73034 black	O	B	3SB16 00-4SA ..		102				
	73033 yellow	II	B	3SB16 00-4SD ..		102				
		O	B	3SB16 00-5GA ..		102				
		II	B	3SB16 00-5GD ..		102				
		O	B	3SB16 00-5SA ..		102				
		II	B	3SB16 00-5SD ..		102				
 <p>nss 00447g</p> <p>Nsd0190g</p>	 <p>Switching sequence I-O-II, latching to the left, non-latching to the right (with return from the right), 2 x 50° operating angle</p>	CES	SSG 10	O + I	B 3SB10 00-4RF ..		102	0.12	1	
				O	B	3SB10 00-4RA ..		102		
				I	B	3SB10 00-4RC ..		102		
		IKON	360012 K1	O + I	B	3SB10 00-5RF ..		102	0.13	1
				O	B	3SB10 00-5RA ..		102		
				I	B	3SB10 00-5RC ..		102		
		BKS	S 1	O + I	B	3SB10 00-5FF ..		102	0.13	1
				O	B	3SB10 00-5FA ..		102		
				I	B	3SB10 00-5FC ..		102		
		O.M.R. <sup>1)</sup>	73038 light blue	O	B	3SB16 00-4FA ..		102	0.14	1
			73037 red	I	B	3SB16 00-4FC ..		102		
			73034 black	O	B	3SB16 00-4RA ..		102		
			73033 yellow	I	B	3SB16 00-4RC ..		102		
		O	B	3SB16 00-5FA ..		102				
		I	B	3SB16 00-5FC ..		102				
		O	B	3SB16 00-5RA ..		102				
		I	B	3SB16 00-5RC ..		102				

For special designs, see page 9/95.

Order No. suffix	Version	Order No. suffix	Additional charge
		3SB10 .-. . □ □	
	Actuator with moulded plastic front ring, black	01	without
	Actuator with metal front ring	20	

1) In accordance with FIAT standards; can also be used by other users.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Key-operated switches

#### Selection and ordering data

##### Special key-operated switches for keyswitches

Special key-operated switches, which are listed with the respective order numbers in the table below. The average delivery time is 5 working days.

In this case, append “-Z”, the order code “Y02” and the desired lock number to the order number.

Additional charge

##### Ordering example

3SB10 00-4LB01-Z  
Y02  
Z = SSG11

##### Note

Special key-operated switches for VW are supplied without keys, all others with 2 keys.

Order No.	Possible special key-op. switches	Order No.	Possible special key-op. switches	Order No.	Possible special key-op. switches
<b>3SB10 00-4LA . .-Z Y02</b>	SSG 11 to SSG 25 SMS 1 to SMS 3 WAG 1 ZM 411/1	<b>3SB10 00-4MA . .-Z Y02</b>	SSG 6 SSG 11 to SSG 20 SMS 1 and SMS 10 WAG 1	<b>3SB10 00-5BA . .-Z Y02</b>	E 7
<b>3SB10 00-4LB . .-Z Y02</b>	SSG 2 SSG 11 to SSG 20 SMS 1 WAG 1	<b>3SB10 00-4MN . .-Z Y02</b>	SSG 6	<b>3SB10 00-5DA . .-Z Y02</b>	E 7
<b>3SB10 00-4LM . .-Z Y02</b>	SSG 2 SMS 1 WAG 1	<b>3SB10 00-4PB . .-Z Y02</b>	SSG 24	<b>3SB10 00-5EA . .-Z Y02</b>	E 7
<b>3SB10 00-4LN . .-Z Y02</b>	SMS 3 WAG 1 ZM 411/1	<b>3SB10 00-4PC . .-Z Y02</b>	SMS 1	<b>3SB10 00-5GA . .-Z Y02</b>	E 7
		<b>3SB10 00-4RC . .-Z Y02</b>	SMS 1	<b>3SB10 00-5FA . .-Z Y02</b>	E 7
		<b>3SB10 00-5AA . .-Z Y02</b>	S 2 S 11 to S 14	<b>3SB10 00-1BC . .-Z Y02</b>	SMS 1

Locks with standard lock cylinder, Ø 24.5 mm.

In this case, append “-Z”, the order code “Y01” and the desired lock number to the order number.

Additional charge

Please enquire for Ø 28.5 mm (large profile, mainly for master and pass key systems) and necessary front ring. Note mounting dimensions.

##### O.M.R. key-operated switch

O.M.R. key-operated switch (black) with lock No. 421 or 455

Append “-Z” and “Z = RONIS 421” or “Z = RONIS 455” to the order number.

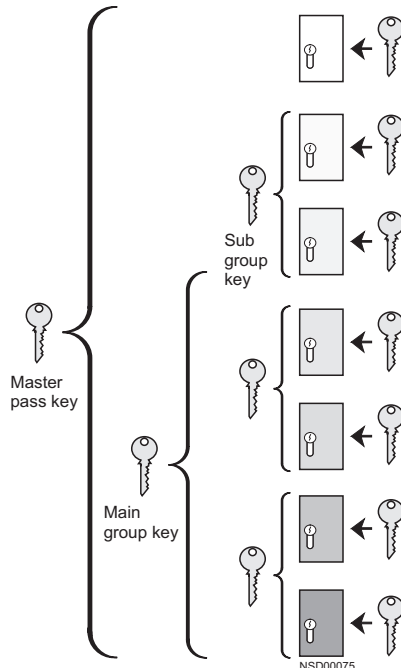
#### Master and pass key systems

Key-operated switch actuators with BKS, CES, IKON and O.M.R. can be supplied for use with:

- central lock systems,
- master key systems,
- central master key systems,
- master pass key systems.

Please enquire for price and delivery time.

Example of master pass-key system






# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Indicator lights and audible signal devices

#### Selection and ordering data

Version	Colour of screw lens	DT	Order No.	Price	PG	Weight approx.	Pack
			For Order No. suffixes see below				
			▶ Preferred type	1 unit		kg	Unit
 <p>Indicator light with concentric rings</p> <p><b>Nsd0191g</b></p>	<b>Indicator light with concentric rings</b> (Inscription with insert cap not possible)	red	▶ <b>3SB10 01-6BC06</b>		102	0.01	10
		yellow	B <b>3SB10 01-6BD06</b>		102		
		green	▶ <b>3SB10 01-6BE06</b>		102		
		blue	B <b>3SB10 01-6BF06</b>		102		
		white	▶ <b>3SB10 01-6BG06</b>		102		
		clear	B <b>3SB10 01-6BH06</b>		102		
 <p>Indicator light for inscription with insert cap</p> <p><b>Nsd0192g</b></p>	<b>Indicator light for inscription with insert caps</b>	red	▶ <b>3SB10 01-6CC06</b>		102	0.01	10
		yellow	B <b>3SB10 01-6CD06</b>		102		
		green	▶ <b>3SB10 01-6CE06</b>		102		
		blue	B <b>3SB10 01-6CF06</b>		102		
		clear	▶ <b>3SB10 01-6CH06</b>		102		
 <p>Indicator lights for glow and LED lamps</p> <p><b>Nsd0192g</b></p>	<b>Indicator lights glow and LED lamps</b>	red	B <b>3SB10 01-6DC06</b>		102	0.01	10
		yellow	B <b>3SB10 01-6CD06</b>		102		
		green	B <b>3SB10 01-6DE06</b>		102		
		blue	B <b>3SB10 01-6DF06</b>		102		
		clear	▶ <b>3SB10 01-6CH06</b>		102		
 <p>Indicator light, raised design</p> <p><b>Nsd0193g</b></p>	<b>Indicator light, raised design</b> with adapter <sup>1)</sup> and reflector	red	B <b>3SB10 01-6GC06</b>		102	0.02	1
		yellow	B <b>3SB10 01-6GD06</b>		102		
		green	B <b>3SB10 01-6GE06</b>		102		
		clear	B <b>3SB10 01-6GH06</b>		102		
 <p>Holder for audible signal device</p> <p><b>Nsd0186g</b></p>	<b>Holder for audible signal device <sup>2)</sup></b> black degree of protection IP 40, for DC 24 V audible signal transducer, with BA 9s base	black	B <b>3SB10 00-7LB ..</b>		102	0.01	1

#### Order No. suffix

Version	Order No. suffix	Additional charge
	<b>3SB12 . . . . . □ □</b>	
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

1) This adapter brings the lamp 10 mm forwards.

2) Additional items required:  
 Holder with lampholder 3SB13 00-2A,  
 (see page 9/99) and audible signal device  
 3SB19 02-2BN (see page 9/110).

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Joystick switches

#### Application

Joystick switches control auxiliary circuits permitting movements in various directions of machines and equipment.

The switches are designed for front panel mounting. They are climate-proof.

#### Design

Contact block 3SB14 00-0J is used, which, due to its depth, cannot be built into the 3SB18 enclosure.

#### Version with mechanical locking in the 0 position

The switch is unlatched with the unlatching knob at the front of the actuating lever.

#### Inscription

For labelling, a backing plate is available, consisting of a black, moulded plastic label holder and two or four adhesive labels.

Note insert dimensions!

The lettering has capital initial letters. For inscriptions with words in languages other than German, give the exact spelling and specify the language.

#### Technical data

##### Specifications

IEC 60 947-5-1 (DIN VDE 0660 Part 200).

##### Rated operational currents

for DC according to adjacent table.

For further technical data, see page 9/83.

Mounting example



nsd0195g

Utilization category	Rated operational current at		
	DC 24 V A	DC 110 V A	DC 230 V A
DC-12	10	2	0.5
DC-13	5	0.5	0.2

#### Selection and ordering data

Version	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
	<input type="checkbox"/> contact closed <input type="checkbox"/> contact open		For order No. suffixes, see next page	1 unit		kg	Unit

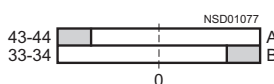
Joystick switch, 2 positions

**Joystick**, 2 positions, 1 NO contact for each direction

##### horizontal, spring return



NSD01079



without mechanical lock in the 0 position

B

**3SB12 01-7DV . .**

102 0.065 1

with mechanical lock in the 0 position

B

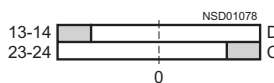
**3SB12 01-7DW . .**

102 0.065 1

##### vertical, spring return



NSD01080



without mechanical lock in the 0 position

B

**3SB12 01-7FV . .**

102 0.065 1

with mechanical lock in the 0 position

B

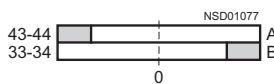
**3SB12 01-7FW . .**

102 0.065 1

##### horizontal, latching



NSD01079



without mechanical lock in the 0 position

B

**3SB12 01-7EV . .**

102 0.065 1

with mechanical lock in the 0 position

B

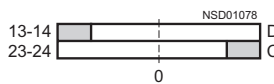
**3SB12 01-7EW . .**

102 0.065 1

##### vertical, latching



NSD01080



without mechanical lock in the 0 position

B

**3SB12 01-7GV . .**

102 0.065 1

with mechanical lock in the 0 position

B

**3SB12 01-7GW . .**

102 0.065 1





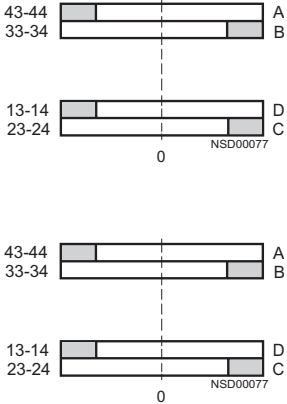
nsd0194g

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Joystick switches

#### Selection and ordering data


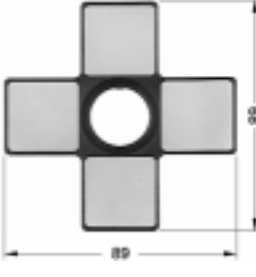
Version	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
	<input type="checkbox"/> contact closed <input type="checkbox"/> contact open		For Order No. suffixes see below	1 unit		kg	Unit
Joystick switch, 4 position	<b>Joystick</b> , 4 position, 1 NO contact for each direction <b>spring return</b>  NSD00076 without mechanical lock in the 0 position with mechanical lock in the 0 position <b>latching</b>  NSD00076 without mechanical lock in the 0 position with mechanical lock in the 0 position						
			<b>3SB12 08-7JV ..</b>		102	0.085	1
			<b>3SB12 08-7JW ..</b>		102	0.085	1
			<b>3SB12 08-7KV ..</b>		102	0.085	1
			<b>3SB12 08-7KW ..</b>		102	0.085	1



#### Order No. suffix

Version	Order No. suffix	Additional charge
Actuator with moulded plastic front ring, black	<b>01</b>	without
Actuator with metal front ring	<b>20</b>	

#### Selection and ordering data for accessories
















Version	DT	Order no.	Price	PG	Weight approx.	Pack
			1 unit		kg	Unit
 Label holder for joystick switch, 2 switching positions, horizontal 2 switching positions, vertical nsd0197g		<b>3SB19 06-0AU</b> <b>3SB19 06-0AV</b> <b>3SB19 06-0AW</b>		102	0.004	1
 Label holder for joystick switch, 4 switching positions nsd0198g		<b>3SB19 06-2AA</b> <b>3SB19 06-2XZ</b> <b>K0Y, K1Y, K2Y, K3Y or K9Y</b>	for "K9Y", plus per unit	102	0.002	1
Supplement the Order No. with the following Order Codes: Capital initial letters Capital letters Lower-case letters Symbols As order attachment When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language. For symbols, state the Serial No. according to DIN technical report 4.		<b>K0Y</b> <b>K1Y</b> <b>K2Y</b> <b>K3Y</b> <b>K4Y</b>				

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Contact blocks and lampholders

#### Selection and ordering data

Version	Symbols	DT	Order No.	Price	PG	Weight approx.	Pack
		for actuators with 2 or 3 switching positions	Preferred type	1 unit		kg	Unit
<p><i>With screw terminals, for front plate mounting, 60 mm mounting depth. Version with holder for combining with actuators<sup>1)</sup>. Identification numbers 1–3–2 to EN 50 013</i></p>							
 <p>3SB13 00-0E nsd0199g</p>	1 NO <sup>2)</sup>						
	1 NC						
	1 NO, 1 NO <sup>2)</sup>		B				
	1 NC, 1 NC		B				
 <p>3SB13 00-1B nsd0200g</p>	1 NO						
	1 NC						
 <p>3SB13 00-2A nsd0201g</p>	without lamp						
	Operational voltage AC/DC 24 V, with 24 V incandescent lamp (3SX1 344) <sup>4)</sup>						
	with built-in voltage reducer and 130 V lamp <sup>4)</sup> (3SX1 731)						
 <p>3SB13 00-2S nsd0202g</p>	Operational voltage DC 220/240 V, for LED lamps only AC/DC 24 V <sup>5)</sup> 6)						
	Operational voltage 60 V DC, for LED lamps AC/DC 24 V <sup>5)</sup>						

For lamps, see page 9/112.

 Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) When a contact block is fitted to the centre position of a holder, the appropriate extra parts (thrust cap for pushbutton, thrust pad for rotary mechanism) must be fitted to the actuator plunger (see page 9/112).

2) Not suitable for 3SB10 00-1MC00 and 3SB10 00-1 . C00 EMERGENCY-STOP mushroom pushbuttons according to EN 418 with positive latching.

3) Max. voltage AC 242 V.

4) Lamp included.

5) LED lamp must be ordered separately, see page 9/112.

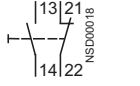
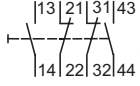
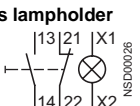
6) All 3 positions in the holder are occupied in this case. Only suitable for indicator lights.

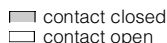
# Pushbutton Units and Indicator Lights


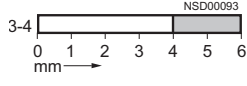

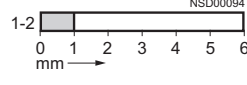

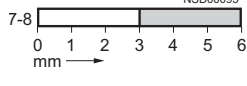

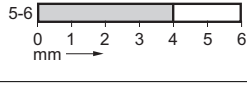

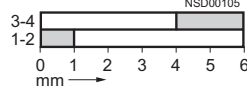

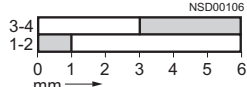





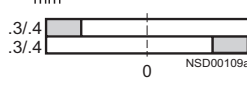
## 3SB1, Mounting Diameter 22 mm

### Contact blocks and lampholders

#### Selection and ordering data

Version	Symbols	DT	Order No.	Price	PG	Weight approx.	Pack
for actuators with 2 or 3 switching positions				1 unit		kg	Unit
3SB13 20-0A	<p><i>With screw terminals, for front plate mounting, 60 mm mounting depth. Version with holder for combining with actuators<sup>1)</sup>. Identification numbers 1/2-5/6-4/3 to EN 50 013</i></p> <p><b>Contact blocks</b></p> <p>1 NO + 1 NC →</p> 	B	<b>3SB13 20-0A</b>		102	0.04	1
3SB13 20-0D	<p>1 NO + 1 NC, 1 NO + 1 NC →</p> 	B	<b>3SB13 20-0D</b>		102	0.06	1
	<p><b>Contact blocks and BA 9s lampholder</b></p> <p>1 NO + 1 NC →</p> 	B	<b>3SB13 20-1A</b>		102	0.05	1

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
			▶ Preferred type	1 unit			kg	Unit

<p><i>With screw terminals, for front plate mounting, 60 mm mounting depth. Version without holder as additional component to the version without holder and to the command point</i></p>								
3SB14 00-0B	<p><b>Contact blocks with 1 contact</b></p> <p>1 NO<sup>3)</sup></p> 	▶	<b>3SB14 00-0B</b>		102	0.01	20	
	<p>1 NC →</p> 	▶	<b>3SB14 00-0C</b>		102	0.01	20	
	<p>1 NO, leading</p> 	B	<b>3SB14 00-0R</b>		102	0.01	20	
	<p>1 NC, lagging<sup>3)</sup></p> 	B	<b>3SB14 00-0S</b>		102	0.01	20	
3SB14 00-0A	<p><b>Contact blocks with 2 contacts</b></p> <p>1 NO + 1 NC<sup>3)</sup> →</p> 	▶	<b>3SB14 00-0A</b>		102	0.02	20	
	<p>1 NO + 1 NC for EMERGENCY-STOP, with positive latching function acc. to EN 418 →</p> 	▶	<b>3SB14 00-0V</b>		102	0.02	20	
	<p>2 NO<sup>3)</sup></p> 	B	<b>3SB14 00-0G</b>		102	0.02	20	
3SB14 00-0H	<p>2 NC →</p> 	B	<b>3SB14 00-0H</b>		102	0.02	20	
	<p>1 NO, 1 NO<sup>2)</sup></p> 	A B	<b>3SB14 00-0J</b>		102	0.02	20	

For lamps, see page 9/112.

→ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) When a contact block is fitted to the centre position of a holder, the appropriate extra parts (thrust cap for pushbutton, thrust pad for rotary mechanism) must be fitted to the actuator plunger (see page 9/112).

2) Contact block only suitable for joystick switches.



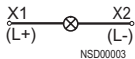
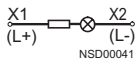
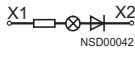

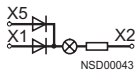
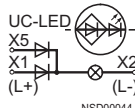
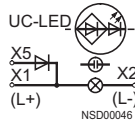

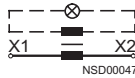
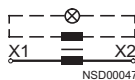

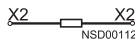
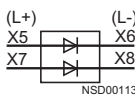


3) Not suitable for 3SB10 00-1MC00 and 3SB10 00-1 . C00 EMERGENCY-STOP mushroom pushbuttons according to EN 418 with positive latching.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Contact blocks and lampholders

#### Selection and ordering data

Version	Symbols	DT	Order No.	Price	PG	Weight approx.	Pack	
		▶	Preferred type	1 unit		kg	Unit	
<p><i>With screw terminals, for front plate mounting, 60 mm mounting depth.</i>  <i>Version without holder as additional component to the version without holder and to the command point</i></p>								
3SB14 00-2C  nsd0208g	<b>BA 9s lampholders</b> without lamp		▶	<b>3SB14 00-2A</b>		102 0.01	20	
	Operational voltage AC/DC 24 V, with 24 V (3SX1 344) <sup>2)</sup>		▶	<b>3SB14 00-2H</b>		102 0.025	10	
	Operational voltage AC/DC 110/130 V, with built-in resistor for longer lifespan and 130 V incandescent lamp (3SX1 731) <sup>2)</sup>		B	<b>3SB14 00-2B</b>		102 0.025	10	
	with built-in voltage reducer and 130 V incandescent lamp (3SX1 731) <sup>2)</sup>		▶	<b>3SB14 00-2C</b>		102 0.025	10	
	Operational voltage: AC 220/230 V <sup>1)</sup> AC 230/240 V		B	<b>3SB14 00-2L</b>		102		
3SB14 00-2N  nsd0209g	<b>BA 9s lampholders, with separate lamp test function</b> <sup>3)</sup> incl. 130 V lamp (3SX1 731) <sup>2)</sup>		B	<b>3SB14 00-2M</b>		102 0.025	10	
	Operational voltage: AC 220 V AC 230/240 V		B	<b>3SB14 00-2N</b>		102		
	for incandescent lamp up to 2.6 W for LED lamp, AC/DC		B	<b>3SB14 00-2P</b>		102 0.025	10	
	Operational voltage depending on lamp		B	<b>3SB14 00-2Q</b>		102		
	for incandescent lamp up to 2.6 W for LED lamp, AC/DC for neon bulbs, AC Operational voltage depending on lamp							
3SB14 00-4.  nsd0210g	<b>BA 9s lampholders with transformer and lamp</b> <sup>4)</sup> , 50/60 Hz Mounting depth 95 mm <sup>5)</sup> 110/127/24 V 220/240/24 V 110/127/ 6 V 220/240/ 6 V		B	<b>3SB14 00-4A</b>		102 0.08	1	
			B	<b>3SB14 00-4C</b>		102		
			B	<b>3SB14 00-4M</b>		102		
			B	<b>3SB14 00-4P</b>		102		
	Mounting depth 60 mm <sup>6)</sup> 110/127/24 V 220/240/24 V 110/127/ 6 V 220/240/ 6 V		B	<b>3SB14 00-5A</b>		102 0.08	1	
		B	<b>3SB14 00-5C</b>		102			
		B	<b>3SB14 00-5M</b>		102			
		B	<b>3SB14 00-5P</b>		102			
3SB14 00-5.  nsd0211g	<b>Voltage reducer for snap-on mounting</b> Operational voltage AC/DC 240 V; 130 V lamp (3 SX1 731) and lampholder 3SB 14 00-2 A must be ordered separately		B	<b>3SB14 00-3B</b>		102 0.01	20	
	<b>2-diode element, type 1N 4007</b> $U_{RMS} = \text{max. } 250 \text{ V,}$ $I_{FAV} = 0.8 \text{ A at } T_u = 60 \text{ °C}$		B	<b>3SB14 00-3X</b>		102 0.01	20	
3SB14 00-3B  nsd0212g	<b>Support terminal</b> Colour: brown		B	<b>3SB19 02-2BT</b>		102 0.015	10	

For lamps, see page 9/112.

1) Max. voltage AC 242 V.

2) Lamp included.

3) See page 9/113 for examples of circuits.

4) Other transformer voltages on request.

5) Transformer 3SB14 00-4., mounting depth 95 mm, requires two mounting positions.

6) Transformer 3SB14 00-5., mounting depth 60 mm, requires two mounting positions and projects 10 mm laterally.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Contact blocks, lampholders and holders

#### Selection and ordering data

Version	Symbols	Contact travel	Order No.	Price	PG	Weight approx.	Pack
			Preferred type	1 unit		kg	Unit
<p><i>With screw terminals, for front plate mounting, 43 mm mounting depth</i>  <i>Version without holder<sup>1)</sup></i></p>							
 nsd0213g	<b>Contact blocks with 1 contact</b> 1 NO <sup>2)</sup>			B	<b>3SB14 30-0B</b>	102	0.015 10
	1 NC			B	<b>3SB14 30-0C</b>	102	0.015 10
	1 NO, leading			B	<b>3SB14 30-0R</b>	102	0.015 10
	<b>Lampholder BA 9s</b>		B	<b>3SB14 30-2A</b>	102	0.01 10	
 nsd0214g	<b>Voltage reducers</b> for connecting a 130 V lamp (3SX1 731) <sup>3)</sup> to AC/DC 220/230 V <sup>4)</sup>		B	<b>3SB14 30-3C</b>	102	0.02 20	
	to AC 220/230 V <sup>5)</sup> , with snap fixing		B	<b>3SB14 30-3A</b>	102	0.02 20	
	to AC 220 V <sup>4)</sup>		B	<b>3SB14 20-3D</b>	102	0.02 20	
<p><i>With 2.8 clamp-type terminal DIN 46 247<sup>6)</sup>, for front panel mounting, mounting depth 60 mm (without terminals)                      for contact blocks with 1 switching element, lampholders: 2 x (2.8 – 0.8)</i></p>							
 nsd0215g	<b>Contact blocks with 1 contact</b> 1 NO <sup>2)</sup>			B	<b>3SB14 04-0B</b>	102	0.01 20
	1 NC			B	<b>3SB14 04-0C</b>	102	0.01 20
	<b>Lampholders BA 9s</b> without lamp		B	<b>3SB14 04-2A</b>	102	0.01 20	
	with built-in voltage reducer and 130 V lamp (3SX1 731) Operational voltage: AC 220/230 V AC 230/240 V		B	<b>3SB14 04-2C</b> <b>3SB14 04-2L</b>	102 102	0.025 20	
 nsd0216g	<b>3SB19 holders<sup>7)</sup></b> <b>Holder for 3 contact blocks</b>	inscription with identification numbers: 1-3-2 1/2-5/6-4/3		B B	<b>3SB19 02-1AC</b> <b>3SB19 02-1AD</b>	102 102	0.02 100
	 nsd0217g	<b>Holder for 5 contact blocks<sup>8)</sup></b>	Positions 3 and 4 of 3SB19 02-1AE, 5/6 and 7/8 of 3SB19 02-1AF cannot be used for contact blocks with EMERGENCY-STOP functions. inscription with identification numbers: 3-1-5-2-4 5/6-1/2-9/0-4/3-7/8		B B	<b>3SB19 02-1AE</b> <b>3SB19 02-1AF</b>	102 102

For lamps, see page 9/112.

- ➔ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.
- 1) Also suitable for enclosed pushbuttons and indicator lights.
- 2) Not suitable for 3SB10 00-1MC00 and -1.C00 EMERGENCY-STOP pushbutton with positive latching.

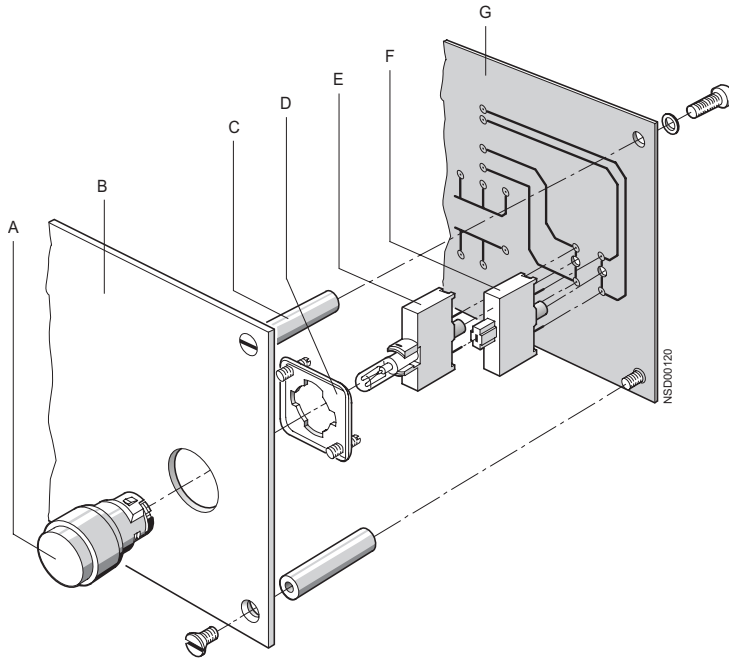
- 3) Also suitable for 3SB3.
- 4) Use support terminals to comply with DIN VDE 0660, Part 500.
- 5) Max. voltage AC 242 V.
- 6) Rated insulation voltage AC 500 V.

- 7) Not suitable for 30 mm.
- 8) Not to be used in combination with safety locks, 3 position, momentary contact.

# Pushbutton Units and Indicator Lights 3SB1, Mounting Diameter 22 mm

For PCB mounting

## Design



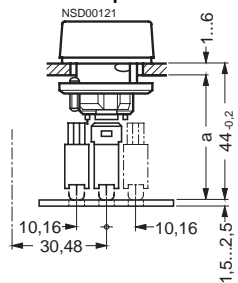
These 3SB1 contact blocks and lampholders are designed for use with printed circuit boards.

- A Actuator
- B Front plate
- C Spacer
- D Shim
- E Lampholder
- F Contact block
- G PCB

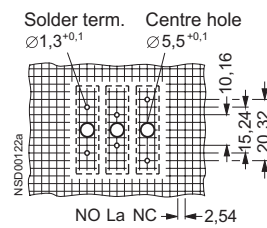
## Specifications

IEC 60 947-5-1 (DIN VDE 0660 Part 200).

### Pushbutton and illuminated pushbutton with contact block and lampholder, with solder pins



### Spacing of solder pins



### Mounting dimensions

Length  $a$  of spacers  
 $a = 44^{-0,2}$  minus front plate thickness.

When using backing plates, the length  $a$  is reduced by 0.8 mm.

To avoid bending of the PCB when the actuator is operated, sufficient spacers must be provided spaced as shown in the table below:

PCB thickness	max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP actuators	generally 50 mm

(These details are based on epoxy resin glass fibre mat.)

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

For PCB mounting



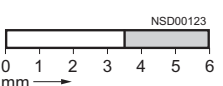


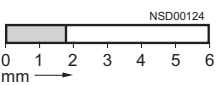

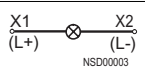

### Technical data

Please see page 9/83 for technical data if not given below.

<b>Rated insulation voltage <math>U_i</math></b>	250 V for contact blocks 1 NO, 1 NC 250 V, max. 2.5 W for BA 9s lampholders					
<b>Pollution degree</b>	Class 3 according to DIN VDE 0110					
<b>Rated thermal current <math>I_{th}</math>, rated operational current <math>I_e</math>, switching capacity</b> (For current carrying capacity of the PCB tracks, see IEC 60 926, Part 3)	40 to 60 Hz AC			DC		
	$U_e$ AC V	$I_e/AC-12$ A	$I_e/AC-15$ A	$U_e$ DC V	$I_e/DC-12$ A	$I_e/DC-13$ A
	220/230	10	4	24 48 110 220	6 4 2 1	6 3 1 0.4
<b>Degree of protection</b> acc. to DIN VDE 0470 Part 2	IP 20 for lampholder, IP 40 for contact block, IP 65 for actuator					
<b>Connection</b>	Solder pins 0.8 mm × 0.8 mm					
<b>NC contact</b>	Positive opening					
<b>Maximum equipment per actuator</b>	3 contact blocks or 2 contact blocks + 1 lampholder					
<b>Maximum PCB thickness</b>	2.5 mm					

### Contact blocks and lampholder with solder pins

#### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
		<input type="checkbox"/> contact closed <input type="checkbox"/> contact open			1 unit		kg	Unit
3SB14 55-0B  nsd0218g	<b>Contact blocks with 1 contact</b>							
	1 NO			B	<b>3SB14 55-0B</b>		102 0.01	10
3SB14 55-0C  nsd0219g	1 NC			B	<b>3SB14 55-0C</b>		102 0.01	10
	3SB14 55-2A  nsd0219g	<b>Lampholder, BA 9s</b>		-	B	<b>3SB14 55-2A</b>		102 0.01
3SB19 02-2AS  nsd0220g	<b>Shim</b> for 30 mm × 30 mm grid	-	-	B	<b>3SB 19 02-2AS</b>		102 0.02	1

For lamps, see page 9/112.

 Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

Insert labels and insert caps

### Design

Clear pushbuttons, illuminated pushbuttons and indicator lights can be fitted with insert labels and caps for identification purposes.

These labels and caps are made of clear transparent moulded plastic with black lettering and can be mounted in any 90° position.

### Inscription

Labels without a printed inscription can be marked using a permanent-ink pen.

The inscription (and the custom inscription) has capital initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

### Selection and ordering data

Inscription	DT	Insert labels for flat pushbuttons and illuminated pushbuttons Order No.	Price 1 unit nsd0055g	DT	Insert caps for raised pushbuttons and illuminated pushbuttons Order No.	Price 1 unit nsd0057g	DT	Insert caps for indicator lights Order No.	Price 1 unit nsd0058g	PG	Pack Unit
Blank	B	<b>3SB19 01-4AS</b>		B	<b>3SB19 01-5AA</b>		B	<b>3SB19 01-7AA</b>		102	10
Ein	B	<b>3SB19 01-4AB</b>			<b>3SB19 01-5AB</b>			-		102	
On	B	<b>3SB19 01-4EB</b>			-			-		102	
Aus	B	<b>3SB19 01-4AC</b>			<b>3SB19 01-5AC</b>			-		102	
Off	B	<b>3SB19 01-4EC</b>			-			-		102	
Auf	B	<b>3SB19 01-4AD</b>			-			-		102	
Up	B	<b>3SB19 01-4ED</b>			-			-		102	
Ab	B	<b>3SB19 01-4AE</b>			-			-		102	
Down	B	<b>3SB19 01-4EE</b>			-			-		102	
Vor	B	<b>3SB19 01-4AF</b>		B	<b>3SB19 01-5AF</b>			-		102	10
Forward	B	<b>3SB19 01-4EF</b>			-			-		102	
Zurück	B	<b>3SB19 01-4AG</b>		B	<b>3SB19 01-5AG</b>			-		102	
Reverse	B	<b>3SB19 01-4EG</b>			-			-		102	
Rechts	B	<b>3SB19 01-4AH</b>		B	<b>3SB19 01-5AH</b>			-		102	
Right	B	<b>3SB19 01-4EH</b>			-			-		102	
Links	B	<b>3SB19 01-4AJ</b>		B	<b>3SB19 01-5AJ</b>			-		102	
Left	B	<b>3SB19 01-4EJ</b>			-			-		102	
Auf	B	<b>3SB19 01-4AD</b>			-			-		102	
Open	B	<b>3SB19 01-4EP</b>			-			-		102	
Zu	B	<b>3SB19 01-4AL</b>			-			-		102	
Close	B	<b>3SB19 01-4EQ</b>			-			-		102	
Schnell	B	<b>3SB19 01-4AM</b>			-			-		102	
Fast	B	<b>3SB19 01-4ER</b>			-			-		102	
Langsam	B	<b>3SB19 01-4AN</b>			-			-		102	
Slow	B	<b>3SB19 01-4ES</b>			-			-		102	
Betrieb	B	<b>3SB19 01-4AP</b>		B	<b>3SB19 01-5AP</b>		B	<b>3SB19 01-7AP</b>		102	10
Running	B	<b>3SB19 01-4EV</b>		B	<b>3SB19 01-5EV</b>			-		102	
Störung	B	<b>3SB19 01-4AQ</b>		B	<b>3SB19 01-5AQ</b>		B	<b>3SB19 01-7AQ</b>		102	
Fault	B	<b>3SB19 01-4EW</b>		B	<b>3SB19 01-5EW</b>			-		102	
Einrichten	B	<b>3SB19 01-4AR</b>			-			-		102	
Reset	B	<b>3SB19 01-4EM</b>		B	<b>3SB19 01-5EM</b>			-		102	
Test	B	<b>3SB19 01-4EN</b>			-			-		102	
Start	B	<b>3SB19 01-4EK</b>			-			-		102	
Halt	B	<b>3SB19 01-4AK</b>			-			-		102	10
Stop	B	<b>3SB19 01-4EL</b>		B	<b>3SB19 01-5EL</b>			-		102	






















Symbol	Significance	Serial No. acc. to DIN Report 4	DT	Insert labels for flat pushbuttons and illuminated pushbuttons Order No.	Price 1 unit nsd0055g	DT	Insert caps for raised pushbuttons and illuminated pushbuttons Order No.	Price 1 unit nsd0057g	DT	Insert caps for indicator lights Order No.	Price 1 unit nsd0058g	PG	Pack Unit	
<b>Symbols</b>														
nsd00432g		Off	15	B	<b>3SB19 01-4MB</b>		B	<b>3SB19 01-5MB</b>			-		102	10
00433		On	16	B	<b>3SB19 01-4MC</b>		B	<b>3SB19 01-5MC</b>			-		102	
00434			-	B	<b>3SB19 01-4MD</b>			-			-		102	
00435			-	B	<b>3SB19 01-4ME</b>			-			-		102	
<b>Equipment symbols</b>														
00410		Electric motor	42	B	<b>3SB19 01-4PA</b>			-		B	<b>3SB19 01-7PA</b>		102	10
00431		Horn	155	B	<b>3SB19 01-4PB</b>		B	<b>3SB19 01-5PB</b>		B	<b>3SB19 01-7PB</b>		102	
00426		Water supply	-	B	<b>3SB19 01-4PC</b>			-		B	<b>3SB19 01-7PC</b>		102	
00414		Pump	695	B	<b>3SB19 01-4PD</b>			-		B	<b>3SB19 01-7PD</b>		102	
00422		Coolant pump	713	B	<b>3SB19 01-4PE</b>			-			-		102	

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

Insert labels and insert caps

### Selection and ordering data

Symbols	Serial No. acc. to DIN Report 4	Insert labels for flat pushbuttons and illuminated pushbuttons		Insert caps for raised pushbuttons and illuminated pushbuttons		Insert caps for indicator lights		PG	Pack
		Order No.	Price 1 unit	Order No.	Price 1 unit	Order No.	Price 1 unit		
<b>Motion symbols</b>									
	Motion in direction of arrow	28	B	<b>3SB19 01-4NA</b>	B	<b>3SB19 01-5NA</b>	–	102	10
	Motion in direction of arrow	28 b	B	<b>3SB19 01-4NB</b>	–	–	–	102	
	Clockwise rotation	100	B	<b>3SB19 01-4NC</b>	B	<b>3SB19 01-5NC</b>	–	102	
	Anticlockwise rotation	114	B	<b>3SB19 01-4ND</b>	B	<b>3SB19 01-5ND</b>	–	102	
	Fast motion	1919	B	<b>3SB19 01-4NE</b>	–	–	–	102	
	Feed	1880	B	<b>3SB19 01-4NF</b>	–	–	–	102	
	Increase, plus	40	B	<b>3SB19 01-4NG</b>	B	<b>3SB19 01-5NG</b>	–	102	
	Decrease, minus	41	B	<b>3SB19 01-4MC</b>	B	<b>3SB19 01-5MC</b>	–	102	
<b>Control symbols</b>									
	Clamp	259	B	<b>3SB19 01-4QB</b>	B	<b>3SB19 01-5QB</b>	B	<b>3SB19 01-7QB</b>	102 10
	Release	169	B	<b>3SB19 01-4QC</b>	B	<b>3SB19 01-5QC</b>	B	<b>3SB19 01-7QC</b>	102
	Brake on	265	B	<b>3SB19 01-4QD</b>	–	–	B	<b>3SB19 01-7QD</b>	102
	Brake off	266	B	<b>3SB19 01-4QE</b>	B	<b>3SB19 01-5QE</b>	B	<b>3SB19 01-7QE</b>	102
	Lock	46	B	<b>3SB19 01-4QF</b>	–	–	–	102	
	Unlock	45	B	<b>3SB19 01-4QG</b>	–	–	B	<b>3SB19 01-7QG</b>	102
	Setup	986	B	<b>3SB19 01-4QH</b>	–	–	B	<b>3SB19 01-7QH</b>	102
	On/Off, momentary contact	19	B	<b>3SB19 01-4QJ</b>	–	–	–	102	
	Manual operation	35	B	<b>3SB19 01-4QK</b>	B	<b>3SB19 01-5QK</b>	B	<b>3SB19 01-7QK</b>	102
	Automatic sequence	267	B	<b>3SB19 01-4QL</b>	B	<b>3SB19 01-5QL</b>	B	<b>3SB19 01-7QL</b>	102
	Intake	264	B	<b>3SB19 01-4QM</b>	–	–	–	102	
	Discharge	263	B	<b>3SB19 01-4QN</b>	–	–	B	<b>3SB19 01-7QN</b>	102
	Cooling	491	B	<b>3SB19 01-4QR</b>	–	–	B	<b>3SB19 01-7QR</b>	102
<b>Other symbols according to DIN Report 4<sup>1)</sup></b>			C	<b>3SB19 01-4AZ K3Y</b>	C	<b>3SB19 01-5AZ K3Y</b>	C	<b>3SB19 01-7AZ K3Y</b>	102 1
Append the code "K3Y" to the order number and specify the number according to DIN Report 4.									
<b>Labels and caps with inscriptions and symbols not listed above:</b>									
There is space for one line with a maximum of 6 letters each 3 mm high.									
Supplement the Order No. with the following Order Code:									
– Capital initial letters		<b>K0Y</b>							
– Capital letters		<b>K1Y</b>							
– Lower-case letters		<b>K2Y</b>							
– According to order		<b>K9Y</b>							
Notes on ordering:									
when ordering, specify the required inscription in plain text in addition to the order number.									
In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.									
<b>Non-transparent inscription labels</b>									
Can only be used with clear pushbuttons. The labels have inscriptions on both sides. Front: red O Rear: green I									
Lettering: black		B		<b>3SB19 01-4MF</b>	–	–	–	102	10
Lettering: white		B		<b>3SB19 01-4MG</b>	–	–	–	102	

1) Special symbols on request.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Backing plates

#### Design

For labelling a command point, you need a plate holder (see [next page](#)) and an inscription plate (silver with black writing).

#### Self-adhesive labels

The rear of the label has an adhesive coating.

Two sizes are available:

- 12.5 mm × 27 mm,
- 27 mm × 27 mm.

#### Snap-on labels

Size: 17.5 mm × 28 mm (inscription area 17.5 mm × 28 mm).





This label can be used only on devices with nominal diameter 22 mm.

#### Inscription

The inscription (and the special inscription) has capital initial letters as a standard.

The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

#### Selection and ordering data

	Inscription	DT	Inscription plate self-adhesive 12.5 mm × 27 mm		DT	Inscription plate self-adhesive 27 mm × 27 mm		DT	Inscription plate snap-on 17.5 mm × 28 mm		PG	Pack
			Order no.	Price 1 unit		Order no.	Price 1 unit		Order no.	Price 1 unit		
Inscription plate 3SB19 01-2AA blank	blank	B	<b>3SB19 01-2AA</b>	<b>0.38</b>	B	<b>3SB19 06-2AA</b>	<b>0.49</b>	B	<b>3SB19 04-2AA</b>	<b>0.38</b>	102	10
 nsd0243g	Ein	B	<b>3SB19 01-2AB</b>					B	<b>3SB19 04-2AB</b>		102	
	On	B	<b>3SB19 01-2EB</b>					B	<b>3SB19 04-2EB</b>		102	
	Aus	B	<b>3SB19 01-2AC</b>					B	<b>3SB19 04-2AC</b>		102	
	Off	B	<b>3SB19 01-2EC</b>					B	<b>3SB19 04-2EC</b>		102	
	Auf	B	<b>3SB19 01-2AD</b>					B	<b>3SB19 04-2AD</b>		102	
	Up	B	<b>3SB19 01-2ED</b>								102	
	Ab	B	<b>3SB19 01-2AE</b>					B	<b>3SB19 04-2AE</b>		102	
	Down	B	<b>3SB19 01-2EE</b>								102	
Inscription plate 3SB19 01-2BA with inscription 12.5 mm × 27 mm  nsd0245g	Vor	B	<b>3SB19 01-2AF</b>					B	<b>3SB19 04-2AF</b>		102	10
	Forward	B	<b>3SB19 01-2EF</b>								102	
	Zurück	B	<b>3SB19 01-2AG</b>					B	<b>3SB19 04-2AG</b>		102	
	Reverse	B	<b>3SB19 01-2EG</b>					B	<b>3SB19 04-2EG</b>		102	
	Rechts	B	<b>3SB19 01-2AH</b>					B	<b>3SB19 04-2AH</b>		102	
	Right	B	<b>3SB19 01-2EH</b>					B	<b>3SB19 04-2EH</b>		102	
	Links	B	<b>3SB19 01-2AJ</b>					B	<b>3SB19 04-2AJ</b>		102	
	Left	B	<b>3SB19 01-2EJ</b>					B	<b>3SB19 04-2EJ</b>		102	
Inscription plate 3SB19 06-2AA blank 27 mm × 27 mm  nsd0244g	Auf	B	<b>3SB19 01-2AD</b>					B	<b>3SB19 04-2AD</b>		102	
	Open	B	<b>3SB19 01-2EP</b>								102	
	Zu	B	<b>3SB19 01-2AL</b>					B	<b>3SB19 04-2AL</b>		102	
	Close	B	<b>3SB19 01-2EQ</b>								102	
	Schnell	B	<b>3SB19 01-2AM</b>					B	<b>3SB19 04-2AM</b>		102	
	Fast	B	<b>3SB19 01-2ER</b>								102	
	Langsam	B	<b>3SB19 01-2AN</b>					B	<b>3SB19 04-2AN</b>		102	
	Slow	B	<b>3SB19 01-2ES</b>								102	
Inscription plate 3SB19 04-2AA blank 17.5 mm × 28 mm  nsd0241g	Betrieb	B	<b>3SB19 01-2AP</b>					B	<b>3SB19 04-2AP</b>		102	10
	Running	B	<b>3SB19 01-2EV</b>								102	
	Störung	B	<b>3SB19 01-2AQ</b>					B	<b>3SB19 04-2AQ</b>		102	
	Fault	B	<b>3SB19 01-2EW</b>					B	<b>3SB19 04-2EW</b>		102	
	Einrichten	B	<b>3SB19 01-2AR</b>					B	<b>3SB19 04-2AR</b>		102	
	Reset	B	<b>3SB19 01-2EM</b>					B	<b>3SB19 04-2EM</b>		102	
	Test	B	<b>3SB19 01-2EN</b>					B	<b>3SB19 04-2EN</b>		102	
	Start	B	<b>3SB19 01-2EL</b>					B	<b>3SB19 04-2EL</b>		102	
	Halt	B	<b>3SB19 01-2AK</b>					B	<b>3SB19 04-2AK</b>		102	10
	Stop	B	<b>3SB19 01-2EK</b>					B	<b>3SB19 04-2EK</b>		102	
	Stop Start	B	<b>3SB19 01-2BC</b>					B	<b>3SB19 04-2BC</b>		102	10
	Hand Auto	A	<b>3SB19 01-2BA</b>					B	<b>3SB19 04-2BA</b>		102	
	Man Auto	A	<b>3SB19 01-2EU</b>					B	<b>3SB19 04-2EU</b>		102	
	Hand 0 Auto	A	<b>3SB19 01-2BE</b>					B	<b>3SB19 04-2BE</b>		102	
	Man 0 Auto	B	<b>3SB19 01-2ET</b>					B	<b>3SB19 04-2ET</b>		102	
<b>Symbols</b>												
O	B	<b>3SB19 01-2MB</b>					B	<b>3SB19 04-2MB</b>		102	10	
I	B	<b>3SB19 01-2MC</b>					B	<b>3SB19 04-2MC</b>		102		
II							B	<b>3SB19 04-2MD</b>		102		
III	B	<b>3SB19 01-2ME</b>					B	<b>3SB19 04-2ME</b>		102		
O-I	B	<b>3SB19 01-2MF</b>					B	<b>3SB19 04-2MF</b>		102		
I-O-II	B	<b>3SB19 01-2MG</b>					B	<b>3SB19 04-2MG</b>		102		
1-O-2							B	<b>3SB19 04-2MK</b>		102		
→	B	<b>3SB19 01-2NA</b>					B	<b>3SB19 04-2NA</b>		102		
↑	B	<b>3SB19 01-2NJ</b>					B	<b>3SB19 04-2NJ</b>		102		

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Backing plates

#### Design

##### Special inscriptions

When ordering, state the desired inscription in plain text in addition to the Order No. and Order Code.

In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

For symbols other than those shown, state also the Serial No. according to DIN Report 4.

Supplement the Order No. with the following Order Code:

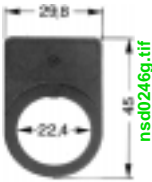
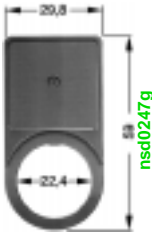
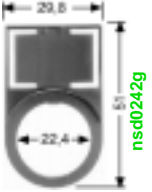
- **K0Y** for upper-/lower-case text,
- **K1Y** for upper-case text,
- **K2Y** for lower-case text,
- **K3Y** for symbols with number to DIN Report 4,

- **K9Y** for inscription and symbols according to order form.

##### Ordering example

3SB1901-2XZ  
K3Y  
Z = 1800

#### Selection and ordering data

Version	Inscription plate self-adhesive 12.5 mm x 27 mm		Inscription plate self-adhesive 27 mm x 27 mm		Inscription plate snap-on 17.5 mm x 28 mm		PG	Pack		
	DT	Order no. Preferred type	Price 1 unit	DT	Order no. Preferred type	Price 1 unit			DT	Order no.
<b>Inscription plates with inscriptions and symbols other than those shown</b>										
Plate holder 3SB19 01-0AX 	<b>Label with additional symbols acc. to DIN Report 4</b>	C	<b>3SB19 01-2XZ K3Y</b>	C	<b>3SB19 06-2XZ K3Y</b>	C	<b>3SB19 04-2XZ K3Y</b>	102	1	
	<b>Label with choice of inscription</b>	C	<b>3SB19 01-2XZ K0Y, K1Y, K2Y or K9Y</b> 2 lines with 11 letters each are possible, engraved lettering.	C	<b>3SB19 06-2XZ K0Y, K1Y, K2Y or K9Y</b> 5 lines with 11 letters each are possible, engraved lettering.	C	<b>3SB19 04-2XZ K0Y, K1Y, K2Y or K9Y</b> 3 lines with 11 letters each are possible, engraved lettering.	102	1	
Plate holder 3SB19 06-0AX 	<b>Plate holder for inscription plate 22 mm mounting diameter</b>	▶	<b>3SB19 01-0AX 0.48</b>	▶	<b>3SB19 06-0AX 0.48</b>	B	<b>3SB19 04-0AX 0.48</b>	102	10	
Plate holder 3SB19 04-0AX 										

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Primary labels

#### Design



The labels consist of a black, moulded plastic plate holder and the inscription plate.

The holders can be stuck and/or screwed in position.

The inscription plate has an adhesive layer on the rear.

Nameplates with special inscriptions must be ordered as described on page 9/108.

#### Selection and ordering data

Fig. No.	Version	DT	Order No.	Price 1 unit	PG	Pack Unit
1  nsd0249g	similar to 1	<b>Plate holder</b> , 64 mm long	B	<b>3SB19 06-5AX</b>	102	1
	similar to 2	<b>Inscription plate</b> for 64 mm label mount				
		blank aluminium-coloured	B	<b>3SB19 06-5AA</b>	102	
		with special inscription, state desired lettering in plain text. Possible arrangements: 1 line with 24 letters, each letter 4 mm high; 2 lines each with 27 letters, each letter 3 mm high	C	<b>3SB19 06-5XZ</b> <b>K0Y, K1Y, K2Y, K3Y</b> or <b>K9Y</b>	102	
2  nsd0250g	1	<b>Plate holder</b> , 94 mm long	B	<b>3SB19 06-6AX</b>	102	1
	2	<b>Inscription plate</b> for 94 mm label mount				
		blank aluminium-coloured	B	<b>3SB19 06-6AA</b>	102	
		red	B	<b>3SB19 06-7AA</b>	102	
		with special inscription, state desired lettering in plain text. Possible arrangements: 1 line with 37 letters, each letter 4 mm high; 2 lines each with 42 letters, each letter 3 mm high	C	<b>3SB19 06-6XZ</b> <b>K0Y, K1Y, K2Y, K3Y</b> or <b>K9Y</b>	102	

### Rectangular frames

#### Design








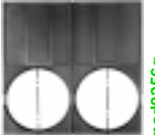


The frames are made of black moulded plastic. In combination with the 3SB1 range (22 mm), they result in a rectangular design.

Already installed actuators can be changed subsequently to the rectangular design if they are installed in a matching grid layout.

Protective caps cannot be used with rectangular frames.

For the inscription, 3SB19 01 inscription plates should be ordered as shown on pages 9/107 and 9/108.

#### Selection and ordering data

Fig. No.	Version	DT	Order No.	Price 1 unit	PG	Pack Unit		
1  nsd0251g	2  nsd0252g	3  nsd0238g	<b>Without inscription plate</b>					
			1	<b>Single frame</b>	B	<b>3SB19 03-0AA</b>	102	10
			2	<b>Double frame</b>	B	<b>3SB19 03-0AG</b>	102	10
			10	<b>Triple frame</b>	B	<b>3SB19 03-0AM</b>	102	5
			3	<b>Side parts</b> for double and triple frame	B	<b>3SB19 03-0AS</b>	102	50
4  nsd0253g	5  nsd0254g	6  nsd0239g	<b>For inscription plate, 12.5 mm x 27 mm</b>					
			4	<b>Single frame</b>	B	<b>3SB19 03-0AB</b>	102	10
			5	<b>Double frame</b>	B	<b>3SB19 03-0AH</b>	102	10
			-	<b>Triple frame</b>	B	<b>3SB19 03-0AN</b>	102	5
			6	<b>Side parts</b> for double and triple frame	B	<b>3SB19 03-0AT</b>	102	50
7  nsd0255g	8  nsd0256g	9  nsd0257g	<b>For inscription plate, 27 mm x 27 mm</b>					
			7	<b>Single frame</b>	B	<b>3SB19 03-0AC</b>	102	10
			8	<b>Double frame</b>	B	<b>3SB19 03-0AJ</b>	102	10
			-	<b>Triple frame</b>	B	<b>3SB19 03-0AP</b>	102	5
			9	<b>Side parts</b> for double and triple frame	B	<b>3SB19 03-0AW</b>	102	50
10  nsd0258g			-	<b>Clip</b> for connecting double and triple frames (2 units per connecting point for version without inscription plate, 3 units per connecting point for version without inscription plate)	B	<b>3SB19 03-0AV</b>	102	50

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Accessories and spare parts

#### Selection and ordering data









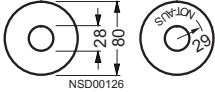
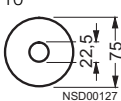


Fig.No.	Version	Colour	DT	Order No.	Price	PG	Pack
				Preferred type	1 unit		Unit
1	 nsd0259g	• Moulded plastic, for actuator h = 12 mm	black	B	<b>3SB19 11-0BA</b>	102	1
			aluminized	B	<b>3SB19 11-0EA</b>	102	
			bright chromed	B	<b>3SB19 11-0DA</b>	102	
2	 nsd0260g	• Metal, for actuator h = 12 mm h = 18.5 mm h = 23.5 mm	aluminized	B	<b>3SB19 11-0AA</b>	102	1
				B	<b>3SB19 11-0AD</b>	102	
				B	<b>3SB19 11-0AH</b>	102	
3	 nsd0261g	• Metal, with lateral cutouts h = 18.5 mm	aluminized	B	<b>3SB19 11-0AE</b>	102	1
				B	<b>3SB19 11-0AF</b>	102	
4	 nsd0262g	raised version	red	B	<b>3SB19 10-1HC</b>	102	1
			green	B	<b>3SB19 10-1HE</b>	102	
5	 nsd0263g		yellow	B	<b>3SB19 10-1HD</b>	102	
			clear	B	<b>3SB19 10-1HH</b>	102	
6	 nsd0262g	1) for mounting 22 mm devices into 30.5 mm mounting hole		B	<b>3SB19 02-0AV</b>	102	1
7	 nsd0265g	2) for use in indicator lights, raised design		B	<b>3SB19 02-1AT</b>	102	1
-		3) Sealable cap <sup>2)</sup> for pushbuttons with flat button	black	B	<b>3SB19 02-0AL</b>	102	1
			transparent	B	<b>3SB19 02-2AR</b>	102	
-		Blanking plug (degree of protection IP 65) moulded plastic, for 22.5 mm	black	B	<b>3SB19 02-0AR</b>	10 units	10
			aluminized	B	<b>3SB19 02-0AQ</b>		

Fig. No.	Version	Suitable for	Inscription/colour	DT	Order No.	Price	PG	Weight approx. kg	Pack Unit
					Preferred type	1 unit			
8	 nsd0266g	Pushbutton with flat button, also with 12 mm stroke (3SB10 00-0E . 2) and On, Off and Reset buttons, type 3SA8 9 . . . , 3SA8 840		B	<b>3SX1 335</b>		102	0.005	1
-		Pushbutton with flat button		B	<b>3SB19 02-1AL</b>		102	0.002	1
9	 NSD00126	as contrasting surface for EMERGENCY-STOP mushroom push-buttons	blank	B	<b>3SX1 720</b>		102	0.005	1
			inscription	B	<b>3SX1 721</b>		102		
			NOT-AUS						
10	 NSD00127	as contrasting surface for EMERGENCY-STOP mushroom push-buttons	blank	B	<b>3SB19 02-2BA</b>		102	0.006	1
			inscription	B	<b>3SB19 02-2BB</b>		102		
			NOT-AUS						
11	 nsd0137g	Audible signal device		B	<b>3SB19 02-2BN</b>		102	0.003	1
12	 nsd0269g	3) for front plate mounting • EMERGENCY-STOP without positive latching yellow • EMERGENCY-STOP with positive latching yellow		B	<b>3SB19 02-2BM</b>		102	0.025	1
				B	<b>3SB39 21-0AK</b>		102		
-		Drilling template for 30 mm horizontal grid	Pushbutton and indicator light, nominal diameter 22 mm, for round and square version	B	<b>3SB19 02-2BG</b>		102	0.01	1

1) Consists of two metal washers with adhesive on one side. Can also be used as thrust collars for front plates of thin insulating material.

2) Not suitable for use with label holders; can be used with SIGNUM 3SB3.









3) The protective collar should be used only to protect against inadvertent operation and must be mounted so that easy operation is possible.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Accessories and spare parts

#### Selection and ordering data

Fig. No.	Version	Colour/lock	Lock No.	DT	Order No.	Price	PG	Pack			
				▶	Preferred type	1 unit		Unit			
1  nsd0270g	1	<b>Pushbutton, flat</b> • for pushbuttons	black		B	3SB19 10-0AB	102	10			
			red		B	3SB19 10-0AC	102				
			yellow		B	3SB19 10-0AD	102				
			green		B	3SB19 10-0AE	102				
			blue		B	3SB19 10-0AF	102				
			white		B	3SB19 10-0AG	102				
			clear		B	3SB19 10-0AH	102				
			• for illuminated pushbuttons	red	B	3SB19 10-0CC	102	10			
			yellow	B	3SB19 10-0CD	102					
			green	B	3SB19 10-0CE	102					
			blue	B	3SB19 10-0CF	102					
			white	B	3SB19 10-0AG	102					
clear	B	3SB19 10-0AH	102								
2  nsd0271g	2	<b>Button, raised</b> • for pushbuttons	black		B	3SB19 10-0BB	102	10			
			red		B	3SB19 10-0BC	102				
			yellow		B	3SB19 10-0BD	102				
			blue		B	3SB19 10-0BF	102				
			clear		B	3SB19 10-0BH	102				
			• for illuminated pushbuttons	red	B	3SB19 10-0DC	102	10			
			yellow	B	3SB19 10-0DD	102					
			blue	B	3SB19 10-0DF	102					
			clear	B	3SB19 10-0BH	102					
			3  nsd0272g	3	<b>Mushroom button, Ø 30 mm</b>	black		B	3SB19 10-0FB	102	10
						yellow		B	3SB19 10-0FD	102	
						green		B	3SB19 10-0FE	102	
–	yellow	B				3SB19 10-0KD	102				
green	B	3SB19 10-0KE				102					
white	B	3SB19 10-0KG				102					
4  nsd0274g	4	<b>Screw lens</b> • with concentric rings	red		B	3SB19 10-1GC	102	10			
			yellow		B	3SB19 10-1GD	102				
			green		B	3SB19 10-1GE	102				
			blue		B	3SB19 10-1GF	102				
			white		B	3SB19 10-1GG	102				
			clear		B	3SB19 10-1GH	102				
			5  nsd0275g	5	• for labelling using insert cap	yellow		B	3SB19 10-1LD	102	10
						clear		B	3SB19 10-1LH	102	
						• for use with glow lamps and LED lamps	red	B	3SB19 10-1PC	102	
						yellow	B	3SB19 10-1LD	102		
green	B	3SB19 10-1PE				102					
blue	B	3SB19 10-1PF				102					
6  nsd0276g	6	<b>Keys for key-operated switches</b>	CES	LSG 1	B	3SB19 10-2F	102	1			
				SSG 10	▶	3SY1 054	102				
				SSP 9	B	3SY1 052	102				
			IKON	360012 K1	B	3SY1 053	102				
				BKS	S 1	B	3SY1 066	102			
			O.M.R.	light blue	B	3SB19 10-2L	102				
				red	B	3SB19 10-2M	102				
				black	B	3SB19 10-2N	102				
			yellow	B	3SB19 10-2P	102					
			7  nsd0126g	7	<b>Clear protective cap, material silicone, 22 mm</b> • for pushbuttons	with flat button		B	3SB19 02-0AK	102	1
with raised button		B				3SB19 02-0AN	102				
• for selector switches		B				3SB39 21-0BA	102				
• for selector switches (old shape), maintained contact,	consisting of metal front ring and cap	B				3SB19 02-1AW	102				
7	<b>Clear protective cap, 22 mm<sup>1)</sup></b> • Material Elastolan	for flat button					B	3SB39 21-0AM	102	1	
		• Material PVC				for raised button	B	3SB19 02-2AN	102		
8  nsd0128g	8	<b>Clear protective cap, material silicone, 22 mm</b> for mushroom push-pull buttons and pushbuttons <sup>2)</sup> , Ø 40 mm			B	3SB19 02-2BH	102	1			

1) Can be used at ambient temperatures of 5 °C upwards.






2) With turn-to-release mushroom pushbuttons, the endurance of the protective cap is 100 000 operations.

# Pushbutton Units and Indicator Lights



## 3SB1, Mounting Diameter 22 mm

### Accessories and spare parts

#### Selection and ordering data

Version	Order No. Preferred type	Price 1 unit	PG	Pack Unit
 nsd0279g <b>Thrust cap</b> for pushbuttons for operating the centre contact block	B <b>3SB19 02-0AA</b>		102	10
 nsd0280g <b>Thrust pad</b> for rotary mechanism, for operating the centre contact block	B <b>3SB19 12-0AN</b>		102	10
 nsd0030g <b>Mounting tool</b> for buttons with 22 mm front ring for 22 and 30 mm buttons and screw lenses for potentiometer drive and pushbutton with 12 mm stroke	▶ <b>3SB19 02-2BR</b> ▶ <b>3SB19 02-2BS</b> B <b>3SX1 707</b>		102 102 102	1
 nsd0133g <b>Push-on connection</b> for plug receptacles according to DIN 46 245 and DIN 46 247 2 x 6.3-2.5 or 4 x B 2.8-1	B <b>3SB19 02-0AW</b>		102	1
 nsd0133g <b>Identification plate</b>	B <b>3TX4 210-0H</b>	Pack	101	100
<b>8WA8 label strip</b>	see Part 16			

Version	Suitable for	Lamp voltage	Colour	Order No. Preferred type	Price 1 unit	PG	Weight approx. kg	Pack Unit
 nsd0135g <b>Incandescent lamp</b> , base BA 9s 1.2 W approx. 2 W max length 28 mm bulb diameter 9 mm	Indicator lights, illuminated pushbuttons, illuminated knobs	24 V 6 V 12 V 24 V 30 V 48 V 60 V	B B B ▶ <b>3SX1 344</b> B B B	<b>3SB19 02-0AY</b> <b>3SX1 342</b> <b>3SX1 343</b> <b>3SB19 02-2AF</b> <b>3SB19 02-1AP</b> <b>3SR94 24</b>		102 102 102 102 102 102	0.005 0.005	10
approx. 2.6 W length 28 mm bulb diameter 10 mm	Indicator lights, illuminated pushbuttons, illuminated knobs	110 ... 130 <sup>1)</sup>	▶ <b>3SX1 731</b>			102	0.005	
<b>Multi-incandescent lamp</b> , BA 9s Lamp life 25 000 h, high resistance to vibration	Indicator lights, illuminated pushbuttons, illuminated knobs	24 ... 30 V	B	<b>3SB19 02-2BU</b>		102	0.005	10
<b>LED lamps, super-bright</b> , BA 9s base, max. length 28 mm Operational current approx. 20 mA	Indicator lights, illuminated pushbuttons, illuminated knobs	AC/DC 24 V <sup>4)</sup>	red yellow green blue white	▶ <b>3SB39 01-1CA</b> B <b>3SB39 01-1BA</b> ▶ <b>3SB39 01-1DA</b> B <b>3SB39 01-1PA</b> ▶ <b>3SB39 01-1QA</b>		102 102 102 102 102	0.005	10
<b>LED lamps</b> , BA 9s base Operational current approx. 15 mA	Indicator lights, illuminated pushbuttons, illuminated knobs	DC 22 ... 32 V	red yellow green	B <b>3SB19 02-4AJ</b> B <b>3SB19 02-4BJ</b> B <b>3SB19 02-4CJ</b>		102 102 102	0.005	10
flashing (1.4 Hz) 29 mA 27 mA 24 mA	Indicator lights, illuminated pushbuttons, illuminated knobs	DC 24 V	red <sup>2)</sup> yell. <sup>2)</sup> green <sup>2)</sup>	B <b>3SB19 02-4LC</b> B <b>3SB19 02-4MC</b> B <b>3SB19 02-4NC</b>		102 102 102		
<b>Glow lamps</b> <sup>2)</sup> BA 9s base, length 28 mm, bulb diameter 10 mm, op. current about 1.8 mA	Indicator lights, illuminated pushbuttons, illuminated knobs	AC 110 V AC 220 V	clear clear green	B <b>3SX1 703</b> B <b>3SX1 701</b> B <b>3SX1 702</b>		102 102 102	0.005	10
 nsd0136g <b>Lamp grip</b>	Lamps with BA 9s base glow lamps with BI-PIN plug connector			▶ <b>3SB19 02-2AD</b> B <b>3SB19 02-2AC</b>		102 102	0.002	1
<b>Lamp adapter</b> for flush mounting a wedge base into a BA 9s holder				B <b>3SB19 02-1AU</b>		102	0.005	1

1) Also for 230 V when voltage reducers are used.

2) Wrong polarity of the operational voltage (I+/L-) will destroy the lamp.  
Not suitable for operation on unsmoothed DC.

3) Due to the inherent orange colour of glow lamps and their lower luminance

level compared to incandescent lamps, it is recommended that they should only be used with clear or red screw lenses and in areas where ambient light levels are not very high.

4) For versions for AC 130 V and 230 V, see page 9/59.

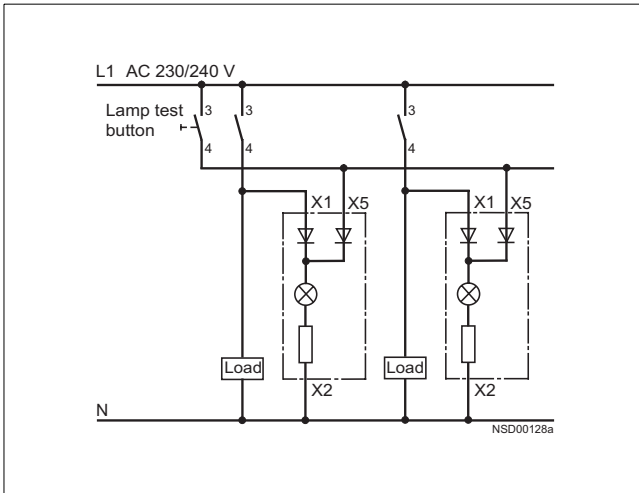
# Pushbutton Units and Indicator Lights

## 3SB1 and SIGNUM 3SB3, Mounting Diameter 22 mm

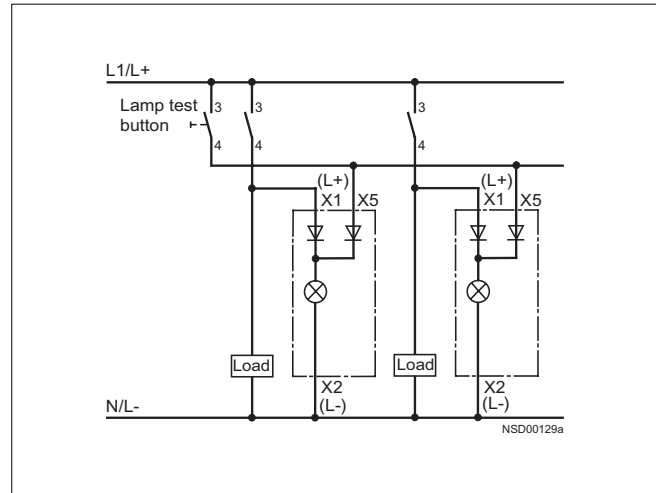
Lampholders  
with separate lamp test function

### Typical circuits

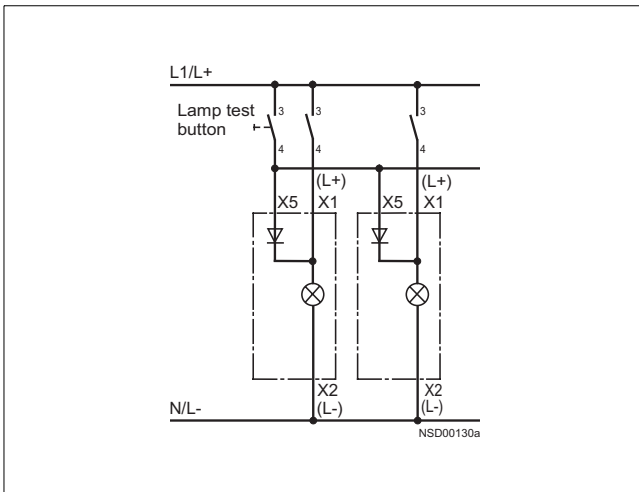
3SB14 00-2N or 3SB34 00-1F lampholder  
incl. 130 V incandescent lamp



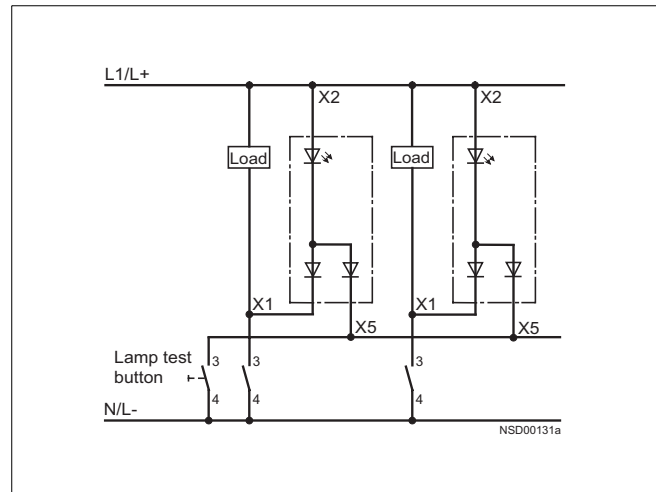
3SB14 00-2P or 3SB34 00-1G lampholder  
for incandescent lamps up to 2.6 W or AC/DC LED lamps



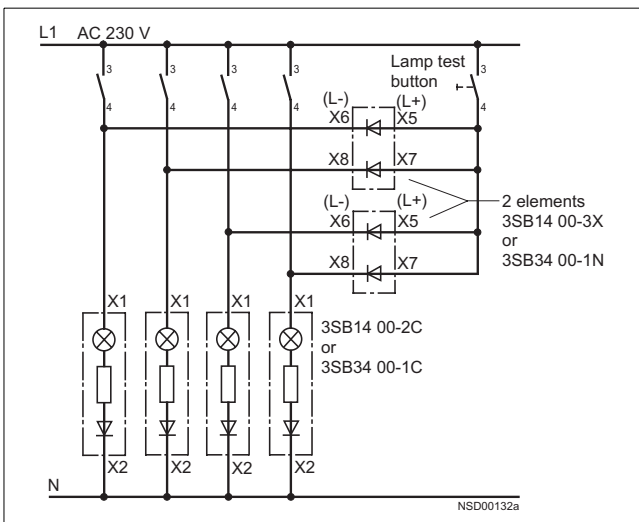
3SB14 00-2Q or 3SB34 00-1H lampholder  
for incandescent lamp to 2.6 W or  
AC neon bulbs or AC/DC LED lamps



3SB34 00-1L lampholder  
for incandescent lamp up to 2.6 W or  
DC LED lamps



Typical lamp test circuit with  
with 3SB14 00-3X or 3SB34 00-1N



### Application examples for 3SB14 00-3X and 3SB34 00- 1N diode elements

- Lamp test circuit,
- Interference suppression,
- Limiting voltage peaks,
- Limiting DC coils,
- Diode gates,
- Rectifier circuits.

The diode element contains two 1N 4007 diodes. The element can be snapped onto the holder as required.

### Notes on using the lampholders with separate lamp test function

When connected in parallel with inductive loads (e.g. contactors), surge suppression required.

The 3SB14 00-2Q and 3SB34 00-1H elements are not suitable for use with a parallel load.

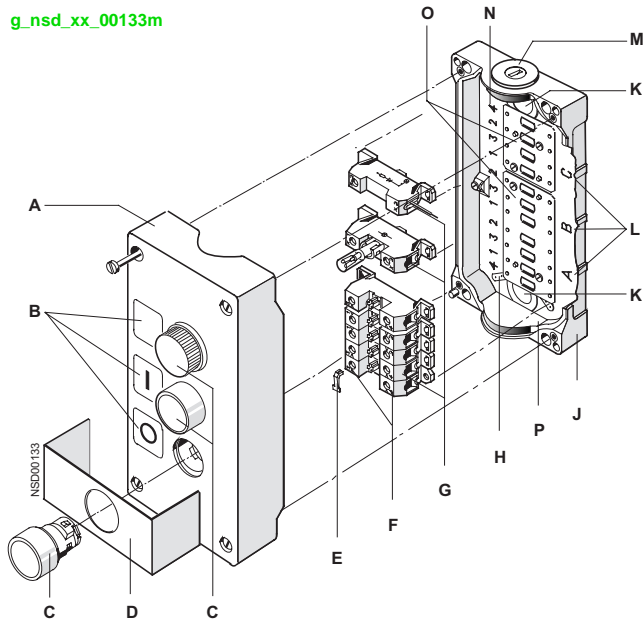
# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

### Contact blocks and lampholders

#### Design

g\_nsd\_xx\_00133m



- A Cover of enclosure
  - B Inscription plates
  - C Actuators suitable for use with standard actuators and lens assemblies. If fitting by customer, replace seal (see page 9/118). A blank plug can be fitted in place of an actuator.
  - D Yellow backing plate acc. to DIN 57 113/VDE 0113. To be used only in conjunction with EMERGENCY-STOP actuators. Backing plates are fitted in the factory at "A".
  - E Driver. For operating base-mounted contact blocks, located in positions numbered 4 and 5.
  - F Terminal designation
  - G Contact blocks, lampholder, voltage reducer for base mounting. Up to 3 contact blocks can be used per command point. The first and last command points can be fitted with a maximum of 4 contact blocks each; enclosures with only one command point can be fitted with a maximum of 5 contact blocks.
  - H Punch marks. Mounting dimensions of 3SB1 devices.
  - J Base of enclosure.
  - K Rear cable entry (optional).
  - L Identification letters for the command points on the inside of their covers and bases.
  - M Screw plug for metal enclosure.
  - N Identification number
  - O Mounting rails for snap-fastening contact blocks and lampholders.
  - P With adapters for the US market (Ⓢ and ⓈA) (see page 9/118).
- The 4th and 5th contact blocks must be ordered separately and retrofitted. Factory fitting of equipment is in accordance with EN 50 013 (terminal designations and identification numbers for certain control devices).

**The moulded plastic enclosures comply with the "protective insulation" specification.**

#### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	Price	PG	Weight approx.	Pack
		<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></div> contact closed                 <div style="width: 10px; height: 10px; border: 1px solid gray; margin-left: 10px; margin-right: 5px;"></div> contact open             </div>	▶ Preferred type	1 unit		kg	Unit	

#### for base mounting

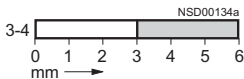
3SB14 20-0C



nsd0297g

#### Contact blocks

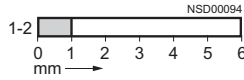
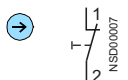
1 NO



▶ **3SB14 20-0B**

102 0.015 10

1 NC<sup>1)</sup>



▶ **3SB14 20-0C**

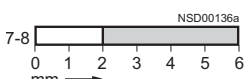
102 0.015 10

3SB14 20-2A



nsd0298g

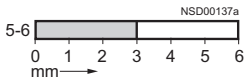
1 NO<sup>1)</sup>, leading



B **3SB14 20-0R**

102 0.015 10

1 NC, lagging



B **3SB14 20-0S**

102 0.015 10

3SB14 20-3A



nsd0299g

#### Support terminal

Colour: brown  
blue  
green/yellow

B **3SB19 02-2AT**

102 0.015 10

B **3SB19 02-2AU**

102

B **3SB19 02-2AV**

102

#### Lampholder

BA 9s base



▶ **3SB14 20-2A**

102 0.01 10

3SB14 20-3D



nsd0214g

#### Voltage reducers

• with snap-on mounting

for connecting a 130 V lamp (3SX1 731)

AC 220/230 V<sup>2)</sup>

B **3SB14 20-3A**

102 0.015 10

• without snap-on mounting

AC 230/240 V

AC 220 V<sup>3)4)</sup>

B **3SB14 20-3E**

102

B **3SB14 20-3D**

102 0.02 20

#### Element with 1 diode 1 N 4007

with snap fixing,  
 $U_{RMS} = \text{max. } 250 \text{ V}$ ,  
 $I_{FAV} = 0.8 \text{ A}$  at  $T_u = 60 \text{ }^\circ\text{C}$

B **3SB14 20-3W**

102 0.008 10

For filament bulbs, see page 9/112.

➔ Positive opening according to IEC 60 947-5-1, Appendix K, and DIN VDE 0660 Part 200.

1) Suitable for 3SB10 00-1MC . .EMERGENCY-STOP pushbutton with positive latching function.

2) Max. voltage 242 V.

3) See 3SB14 30-3C, page 9/102 for voltage reducer for connection to DC 220 V.

4) Use support terminals to comply with DIN VDE 0660, Part 500.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

Empty enclosures


### Design

Housing for 1, 2, 3, 4 or 6 command points, Degree of protection IP 65.

Backing plates with yellow contrast area can be ordered additionally; see page 9/118.

Mounting tool 3SB19 02-0AE is required for mounting the actuators, see page 9/118.

### Selection and ordering data

Equipment	Number of command-points	DT	Moulded plastic enclosure		Weight approx. kg	DT	Metal enclosure		PG	Weight approx. kg	Pack Unit
			Order No. Preferred type	Price 1 unit			Order No. Preferred type	Price 1 unit			
 nss 00454g	<b>Cable entry<sup>1)</sup> top and bottom</b> 1 x Pg 16/M 20 each (1 to 3 command points) 1 x Pg 16/M 25 each (4 command points) 1 x Pg 21/M 25 each (6 command points)										
	for base-mounted contact blocks and lampholders	1	▶	3SB18 01-0AC	0.14	▶	3SB18 01-4AC	102	0.39	1	
		2	▶	3SB18 02-0AC	0.18	▶	3SB18 02-4AC	102	0.45		
		3	▶	3SB18 03-0AC	0.28	▶	3SB18 03-4AC	102	0.57		
		4	▶	3SB18 04-0AC	0.32	▶	3SB18 04-4AC	102	0.65		
		6	B	3SB18 06-0AC	0.36	B	3SB18 06-4AC	102	0.80		
	for front plate mounting contact blocks and lampholders; mounting depth of contact blocks and lampholders 43 mm <sup>2)</sup>	1	▶	3SB18 01-1AC	0.17	–	–	–	–	1	
		2	▶	3SB18 02-1AC	0.23	–	–	–	–		
		3	▶	3SB18 03-1AC	0.35	–	–	–	–		
		4	▶	3SB18 04-1AC	0.41	–	–	–	–		
		6	B	3SB18 06-1AC	0.51	–	–	–	–		
	nss 00455g	<b>Cable entry<sup>1)</sup> top and bottom 1 x Pg 16/M 20 each</b>									
for EMERGENCY-STOP with yellow cover, for base-mounted contact blocks and lampholders,		1	▶	3SB18 01-0AD	0.16	▶	3SB18 01-4AD	102	0.82	1	
<b>Cable entry<sup>1)</sup> top 1 x Pg 16/M 20 and bottom 2 x Pg 13.5/M 20</b>											
for base-mounted contact blocks and lampholders		1	B	3SB18 01-0AG	0.14	–	–	102	–	1	
for EMERGENCY-STOP with yellow cover, for base-mounted contact blocks and lampholders		1	B	3SB18 01-0AK	0.16	–	–	102	–	1	
<b>Cable entry<sup>1)</sup> top 1 x Pg 16/M 20 and bottom 2 x Pg 13.5/M 20</b>											
for base-mounted contact blocks and lampholders		3	B	3SB18 03-0AG	0.28	–	–	102	–	1	
		4	B	3SB18 04-0AG	0.32	–	–	–	–		
<b>Version for extreme mechanical loads, contact blocks screwed, Cable entry top and bottom</b> 1 x Pg 16/M 20 each (1 to 3 command points) 1 x Pg 16/M 25 each (4 command points) 1 x Pg 21/M 25 each (6 command points)											
for base-mounted contact blocks and lampholders		1	B	3SB18 01-0AH	0.18	D	3SB18 01-4AH	102	0.43	1	
		2	C	3SB18 02-0AH	0.22	D	3SB18 02-4AH	102	0.49		
		3	C	3SB18 03-0AH	0.32	D	3SB18 03-4AH	102	0.61		
	4	C	3SB18 04-0AH	0.36	D	3SB18 04-4AH	102	0.69			
	6	C	3SB18 06-0AH	0.40	D	3SB18 06-4AH	102	0.84			
for EMERGENCY-STOP with yellow cover, for base-mounted contact blocks and lampholders	1	B	3SB18 01-0AJ	0.2	D	3SB18 01-4AJ	102	0.86	1		

For inscription plates, see page 9/117.

1) The enclosure base can optionally contain knockouts for Pg or metric glands. For metric glands, append "3" to the order number, e. g. 3SB18 01-0AC3.

2) Lampholders, 43 mm deep, see page 9/102.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed






### Enclosures with standard equipment

#### Selection and ordering data

With 1 to 3 command points;  
up to AC 660 V, DC 800 V;  
degree of protection IP 65

With base fixing contact blocks  
(snapped into the base of the  
enclosure).

Vertical mounting,  
with moulded plastic front rings.

Equipment (A, B, C = identification letters for com- mand points) Actuators	Contact blocks	DT	Moulded plastic enclosure		Weight approx. kg	DT	Metal enclosure <sup>5)</sup>		PG	Weight approx. kg	Pack Unit
			Order No. Preferred type	Price 1 unit			Order No. Preferred type	Price 1 unit			
<b>3SB18 01-7AA</b>  <i>Cable entry <sup>1)</sup> top and bottom 1 x Pg 16/M 20 each</i>											
A = Pushbutton green, label "I"	1 NO	▶	<b>3SB18 01-7AA</b>		0.17	▶	<b>3SB18 01-8AA</b>		102	0.42	1
A = Pushbutton red, label "O"	1 NC		<b>3SB18 01-7AB</b>		0.17	B	<b>3SB18 01-8AB</b>		102	0.42	1
B = Pushbutton green, label "I"	1 NO	▶	<b>3SB18 02-7AC</b>		0.23	▶	<b>3SB18 02-8AC</b>		102	0.50	1
A = Pushbutton red, label "O"	1 NC										
<b>3SB18 02-7AC</b>  <i>C = Indicator light clear, blank label</i>											
B = Pushbutton green, label "I"	1 NO		<b>3SB18 03-7AD</b>		0.35	▶	<b>3SB18 03-8AD</b>		102	0.65	1
A = Pushbutton red, label "O"	1 NC										
C = Pushbutton black, label "II"	1 NO	B	<b>3SB18 03-7AE</b>		0.35	B	<b>3SB18 03-8AE</b>		102	0.65	1
B = Pushbutton black label "I"	1 NO										
A = Pushbutton red, label "O"	1 NC										
<b>3SB18 01-8AM</b>  <i>EMERGENCY-STOP pushbutton, Cable entry <sup>1)</sup> top and bottom 1 x Pg 16/M 20 each</i>											
A = Mushroom push-pull button <sup>2)</sup> Ø 40 mm, latching, cover of enclosure yellow	1 NC	▶	<b>3SB18 01-7AN</b>		0.19	▶	<b>3SB18 01-8AN</b>		102	0.44	1
A = Mushroom pushbutton Ø 40 mm, latching, cover of enclosure yel- low	1 NC, 1 NC, 1 NO	B	<b>3SB18 01-7AM</b>		0.19	B	<b>3SB18 01-8AM</b>		102	0.44	1
			<b>3SB18 01-7AG</b>		0.2	B	<b>3SB18 01-8AG</b>		102	0.45	1
A = Mushroom pushbutton <sup>3)</sup> with positive latching function acc. to EN 418, Ø 40 mm, cover of enclosure yellow	1 NC	▶	<b>3SB18 01-7AK</b>		0.19	▶	<b>3SB18 01-8AK</b>		102	0.44	1
<b>3SB18 31-8AM</b>  <i>EMERGENCY-STOP pushbutton acc. to EN 418, Cable entry <sup>1)</sup> top 1 x Pg 16/M 20 and bottom 2 x Pg 13.5/M 20</i>											
A = Mushroom push-pull button <sup>2)</sup> , Ø 40 mm, latching, cover of enclosure yellow	1 NC	B	<b>3SB18 31-7AN</b>		0.19	B	<b>3SB18 31-8AN</b>		102	0.44	1
A = Mushroom pushbutton Ø 40 mm, latching, cover of enclosure yel- low	1 NC	B	<b>3SB18 31-7AM</b>		0.19	B	<b>3SB18 31-8AM</b>		102	0.44	1
A = Mushroom pushbutton <sup>3)</sup> with positive latching function, Ø 40 mm, cover of enclosure yellow	1 NC	B	<b>3SB18 31-7AK</b>		0.19	B	<b>3SB18 31-8AK</b>		102	0.44	1
<b>3SB18 31-7AQ</b>  <i>EMERGENCY-STOP pushbutton acc. to EN 418, with protective collar Cable entry <sup>1)</sup> top 1 x Pg 16/M 20 and bottom 2 x Pg 13.5/M 20</i>											
A = Mushroom pushbutton <sup>3)</sup> with positive latching function, Ø 40 mm, cover of enclosure yel- low, protective collar <sup>4)</sup>	1 NC	B	<b>3SB18 31-7AQ</b>		0.25	B	<b>3SB18 31-8AQ</b>		102	0.44	1

For accessories and spare parts, see page 9/118.  
Design for use under extreme mechanical stress, see page 9/117.

1) The enclosure base can optionally contain knockouts for Pg or metric glands. For metric glands, append "3" to the order number, e.g. 3SB18 01-7AA3.

2) Opens and latches past the pressure point.  
3) For additional contact blocks, use 3 SB14 20-0C for 1 NC and 3 SB14 20-0R for 1 NO.

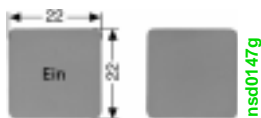
4) The protective collar should be used only to protect against inadvertent operation and must be mounted so that easy operation is possible.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

### Inscription plates

#### Design



The inscription plates (silver with black lettering) have an adhesive coating on the back.

#### Inscription

The inscription (and the special inscription) has capital initial letters as a standard.

The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

#### Special inscription

When ordering state the desired inscription in plain text in addition to the Order No. and the order code.

In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

#### Selection and ordering data

Inscription	Order No.	Inscription	Order No.	Inscription	Order No.	Inscription	Order No.
blank	<b>3SB19 01-3AA</b>	Auf	<b>3SB19 01-3AD</b>	<b>Special inscription</b>		<b>Symbols</b>	
Price PG 102 DT B		Open	<b>3SB19 01-3EP</b>	3 lines with 11 letters each are possible, height of letters 4 mm (1 to 3 lines)	<b>3SB19 01-3XZ</b> <b>K0Y, K1Y, K2Y</b> or <b>K9Y</b>	O I II III O I I O II	<b>3SB19 01-3MB</b> <b>3SB19 01-3MC</b> <b>3SB19 01-3MD</b> <b>3SB19 01-3ME</b>
Ein	<b>3SB19 01-3AB</b>	Zu	<b>3SB19 01-3AL</b>	Supplement the Order No. with the following order code:		I O II O II O I →	<b>3SB19 01-3MF</b> <b>3SB19 01-3MG</b>
On	<b>3SB19 01-3EB</b>	Close	<b>3SB19 01-3EQ</b>	- Capital initial letters	<b>K0Y</b>		<b>3SB19 01-3MH</b>
Aus	<b>3SB19 01-3AC</b>	Schnell	<b>3SB19 01-3AM</b>	- Capital letters	<b>K1Y</b>		<b>3SB19 01-3MW</b>
Off	<b>3SB19 01-3EC</b>	Fast	<b>3SB19 01-3ER</b>	- Lower-case letters	<b>K2Y</b>		<b>3SB19 01-3NA</b>
Auf	<b>3SB19 01-3AD</b>	Langsam	<b>3SB19 01-3AN</b>	- Inscription or symbols acc. to the order form	<b>K9Y</b>		
Up	<b>3SB19 01-3ED</b>	Slow	<b>3SB19 01-3ES</b>			Price PG 102 DT B	
Ab	<b>3SB19 01-3AE</b>	Betrieb	<b>3SB19 01-3AP</b>			<b>Other symbols</b> acc. to DIN Report 4	<b>3SB19 01-3XZ</b> <b>K3Y</b> also state symbol serial number
Down	<b>3SB19 01-3EE</b>	Running	<b>3SB19 01-3EV</b>				
Vor	<b>3SB19 01-3AF</b>	Störung	<b>3SB19 01-3AQ</b>				
Forward	<b>3SB19 01-3EF</b>	Fault	<b>3SB19 01-3EW</b>				
Zurück	<b>3SB19 01-3AG</b>	Einrichten	<b>3SB19 01-3AR</b>				
Reverse	<b>3SB19 01-3EG</b>	Reset	<b>3SB19 01-3EM</b>				
Rechts	<b>3SB19 01-3AH</b>	Test	<b>3SB19 01-3EN</b>				
Right	<b>3SB19 01-3EH</b>	Start	<b>3SB19 01-3EL</b>				
Links	<b>3SB19 01-3AJ</b>	EMERGENCY- STOP	<b>3SB19 01-3AS</b>				
Left	<b>3SB19 01-3EJ</b>	Lüfter	<b>3SB19 01-3CA</b>				
Halt	<b>3SB19 01-3AK</b>	Pump	<b>3SB19 01-3CB</b>				
Stop	<b>3SB19 01-3EK</b>	Heating	<b>3SB19 01-3CD</b>				
		Lighting	<b>3SB19 01-3CE</b>				
		Motor	<b>3SB19 01-3CG</b>				
Price PG 102 DT B		Price PG 102 DT B		Price PG 102 DT C		Price PG 102 DT C	

#### Special designs for 3SB18 enclosed pushbutton units

Number of command points	Moulded plas- tic enclosure	Metal enclo- sure
	Extra charge	Extra charge

#### For use under extreme mechanical stress

such as impact against a wall, free fall onto a hard surface during mobile operation.

Particularly important where enclosures fitted with EMERGENCY-STOP devices are used.

When ordering, append "-Z" to the order number and specify code "A02".  
Example:  
**3SB18 01-7AM-Z**  
**A02**




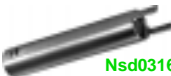



1  
2  
3  
4  
6

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

### Accessories and spare parts

#### Selection and ordering data

Version	Colour/size	DT	Order No.	Price	PG	Weight approx.	Pack	
			▶ Preferred type	1 unit		kg	Unit	
 Nsd0313g	<b>Driver</b> for operating base-mounted contact blocks (located in the positions numbered 4 and 5). Do not use for contact blocks with EMERGENCY-STOP function.	B	<b>3SB19 02-1AH</b>		102	0.001	1	
 Nsd0220g	<b>Fixing plate</b> for fixing actuators other than 3SB18 with base mounting contact blocks (30 mm × 30 mm grid)	B	<b>3SB19 02-2AS</b>		102	0.015	1	
 Nsd0148g	<b>Yellow backing plate</b> , self-adhesive, as backing plate for enclosed 3SB18 EMERGENCY-STOP pushbutton blank with EMERGENCY-STOP labelling	▶	<b>3SB19 02-1AQ</b>		102	0.005	1	
		B	<b>3SB19 02-2AQ</b>		102			
 Nsd0316g	<b>Mounting tool</b> for fixing the actuators in the cover of the enclosure	▶	<b>3SB19 02-0AE</b>		102	0.09	1	
	<b>Sealing ring</b> for actuators in enclosures	B	<b>3SB19 12-0AD</b>		102	0.001	1	
	<b>Blanking plug</b> , degree of protection IP 65			10 units				
		▶	<b>3SB19 02-0AR</b>		102	0.005	10	
		B	<b>3SB19 02-0AQ</b>		102			
 Nsd0317g	<b>Mounting rails</b> for fixing base mounting contact blocks and lampholders (included with the enclosure) for 4 contact blocks (40 mm × 35 mm) for 5 contact blocks (50 mm × 35 mm) for 7 contact blocks (73 mm × 35 mm) for 10 contact blocks (106 mm × 35 mm) Length 2 m			1 unit				
		B	<b>3SB19 12-0AS</b>		102	0.009	1	
		B	<b>3SB19 12-0AT</b>		102	0.012		
		B	<b>3SB19 12-0AU</b>		102	0.016		
		B	<b>3SB19 12-0AV</b>		102	0.025		
	<b>Length 2 m</b>	B	<b>3SB19 12-0AX</b>		102	0.5		
 Nsd0318g	<b>Moulded plastic Pg 13.5 gland</b> , 6 mm long, with seal (for moulded plastic enclosure with Pg 13.5 cable entry)	B	<b>3SB19 02-2AE</b>		102	0.01	1	
	<b>Connecting piece</b> for connecting two housings together	Pg 16	B	<b>3SB19 02-2AH</b>		102	0.015	1
		Pg 21	B	<b>3SB19 02-2AJ</b>		102	0.04	
	<b>Ventilation/breather gland Pg 16</b> (degree of protection IP 65)	A	<b>3SB19 02-2BP</b>		102	0.014	1	
 Nsd0319g	<b>Adapters to comply with CE, RoHS and VDE</b> for cable entry into enclosed equipment. They are used to connect equipment with Pg internal threads according to DIN 40 430 to conduits with USA external steel conduit thread according to ANSI B 2.1. They are specified for all equipment delivered to Canada and the USA.	Pg 13.5 to NPT 1/2	A	<b>3SX9 910</b>		102	0.10	1
		Pg 16 to NPT 1/2	A	<b>3SX9 911</b>		102	0.11	
		Pg 21 to NPT 3/4	A	<b>3SX9 912</b>		102	0.18	
		Pg 29 to NPT 1	A	<b>3SX9 913</b>		102	0.17	

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

Enclosures with choice of command points

### Design

With 1 to 6 command points;  
up to AC 660 V, DC 800 V;  
degree of protection IP 65


A command point consists of an actuator/indicator with contact block(s) or lampholder and inscription plate with lettering (see page 9/117).

The selection of the command points is carried out in accordance with pages 9/123 to 9/127.

### Pricing

Prices consist of the prices given below for the housings and the additional prices resulting from the selection of command points.

### Selection and ordering data

Version	Number of command points	DT	Moulded plastic enclosure		Weight approx.		Metal enclosure <sup>1)</sup>		PG	Weight approx.		Pack Unit
			Order No.	Price 1 unit	kg	DT	Order No.	Price 1 unit		kg		
3SB 18 06-.AZ The equipment shown is only an example.	1	C	<b>3SB18 01-0AZ</b>		0.17	C	<b>3SB18 01-4AZ</b>		102	0.42	1	
	2	C	<b>3SB18 02-0AZ</b>		0.23	C	<b>3SB18 02-4AZ</b>		102	0.50		
	3	C	<b>3SB18 03-0AZ</b>		0.35	C	<b>3SB18 03-4AZ</b>		102	0.65		
	4	C	<b>3SB18 04-0AZ</b>		0.41	C	<b>3SB18 04-4AZ</b>		102	0.74		
	6	C	<b>3SB18 06-0AZ</b>		0.51	C	<b>3SB18 06-4AZ</b>		102	0.82		
	1	C	<b>3SB18 01-1AZ</b>		0.17	-			102		1	
	2	C	<b>3SB18 02-1AZ</b>		0.23	-			102			
	3	C	<b>3SB18 03-1AZ</b>		0.35	-			102			
	4	C	<b>3SB18 04-1AZ</b>		0.41	-			102			
	6	C	<b>3SB18 06-1AZ</b>		0.51	-			102			

An order attachment is provided for ordering, see page 9/121.

The enclosed pushbuttons and indicator lights are available as special designs for use under extreme mechanical stress, such as

- impact against enclosure wall,
- free fall onto a hard surface during mobile operation.

For ordering data, see special versions, pages 9/117 and 9/126.

Especially important for enclosures fitted with EMERGENCY-STOP devices.

For accessories and spare parts for enclosed pushbuttons and indicator lights, see page 9/118.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

### Enclosures with choice of command points

#### Guide for completion of the order form appendix

**Romi** **I** Enter the Item No.

**Romii** **II** Enter the quantity

**Romiii** **III** Enter the Siemens Order No.

- e. g.
- 3SB18 0.-0AZ surface mounting, moulded plastic enclosure base mounting contact blocks
  - 3SB18 0.-1AZ surface mounting, moulded plastic enclosure front plate mounting contact blocks
  - 3SB18 0.-4AZ surface mounting, metal enclosure base mounting contact blocks
  - 3SB18 2.-4EZ pendant pushbutton unit, metal enclosure with suspension plate and standard handle
  - 3SB18 2.-4DZ pendant pushbutton unit, metal enclosure with suspension plate and without handle

The supplement for the 7th position of the Order No. (number of command points) should be entered in accordance with page 9/119.

**Romiv** **IV** Type of front ring

Factory assembled enclosures are only available with 2 types of front ring, i.e. black moulded plastic or aluminized metal.

If other types of front rings are required, the version with moulded plastic front ring must be ordered. The desired front rings must then be ordered separately in accordance with page 9/110 and exchanged for the moulded plastic front rings.

**Romv** **V** Enter data in the diagram

**V/1** Select actuators in accordance with pages 9/123 to 9/126 and enter the codes. Twist levers and Ø 40 mm dia. mushroom pushbuttons cannot be placed next to each other because of the close spacing.

The purpose of the identification letter (A to F) on the inside of the cover and base of the enclosure is to simplify ordering and complementing of housings.

Should a command point not be required, state the code for a blank plug. If an enclosure with 5 command points is required, select an enclosure with 6 command points, i. e. one command point will be fitted with a blanking plug.

Please observe EN 60 204 (IEC 60 204)/VDE 0113: The OFF pushbutton should be black, the ON pushbutton white. Illuminated pushbuttons should not be used as OFF pushbuttons.

A yellow backing plate must be used in conjunction with a red EMERGENCY-STOP mushroom pushbutton. This is available at an additional price (see V/6).

nss 00458g

- |     |  |                |
|-----|--|----------------|
| On  |  | white or clear |
| On  |  | green or white |
| Off |  | red only       |

Vertical mounting

nss 00457g



On Off On

Horizontal mounting

**V/2** Specify contact blocks, lampholders and voltage reducers for each command point

Select the codes for the desired equipment in accordance with the table on page 9/127 and enter them in the appropriate column.

For pushbuttons, actuators with 2 positions, illuminated pushbuttons, indicator lights, indicator lights with lamp test

the quantity and desired type of contact blocks or lampholders etc. must be entered.

Illuminated pushbuttons, indicator lights and indicator lights with lamp test with voltage reducers are supplied from the factory complete with incandescent lamp.

If a lampholder without voltage reducer is to be supplied with a lamp, state the lamp voltage and, for 110 V, the lamp type (incandescent, glow lamp or LED lamp) under V/3.

**V/2** The table on page 9/127 contains all the possible combinations for 3-position actuators in accordance with EN 50 013. Enter the appropriate code. If a different arrangement of contact blocks is desired for a command point, this command point must be ordered without contact blocks. The contact blocks must be ordered separately and fitted into the enclosure.

The first and last command point can each be fitted with a maximum of 4 contact blocks, but a single point enclosure can take a maximum of 5 contact blocks. The necessary contact blocks and thrust pads must be ordered separately.

Positions with identification nos. 4 and 5 must not be fitted with contact blocks for EMERGENCY-STOP functions.

**V/3** Notes on non-standard versions of equipment

Non-standard refers to equipment that differs from that listed in this catalog, e. g.

- Additional supply of lamps without voltage reducers: state lamp voltage and type of lamp (incandescent, glow lamp or LED lamp).
- insert labels for pushbuttons, illuminated pushbuttons and indicator lamps. Select Order No. from pages 9/105 and 9/106 and enter accordingly.
- for lockable actuators: special locks (= different Lock No.).

**V/3** Inscription of the inscription plates

Enter the text. For selection of the inscription plates, see page 9/117. If a blank plate is required, state "blank". The inscription plate will be supplied loose.

If no inscription plate is to be fitted, enter "without plate". Inscription plates with special text can be supplied at an additional price.

Enter the text. The inscription plates are delivered adherent to the cover of the enclosure.

The lettering has capital initial letters.

**V/5** Tick the position of the inscription plate for horizontal or vertical mounting.

If no entry is made, the equipment will be supplied for vertical mounting.

**V/6** Non-standard versions (only if required)

Non-standard versions are versions of enclosures that differ from those listed in this catalog, e. g.

e.g. tick "rear cable entry" if the standard cable entries on the ends of the units are not sufficient or cannot be used. Append the suffix "-Z" to the order number and specify the position of the cable entry in plain text.

For rear cable entry, the outermost command points can only be equipped at positions with identification numbers 1-3-2.

e.g. if required, mark the DIN 57 133/VDE 0113-conformant yellow backing plate. Enclosures with only one command point will then be supplied with a yellow cover. If the enclosure has more than one command point, a yellow backing plate will be factory-fitted at point "A". If the backing plate is to be fixed to another command point, please state clearly which one this is to be.

**V/7** If enclosures with more than 6 command points are required, this option must be ticked and the text completed. These enclosures are assembled at the factory. Only enclosures with the same Pg cable entries can be combined.

The enclosure with the least number of command points is always mounted at the top. Exception: The enclosed EMERGENCY-STOP pushbutton is always mounted at the bottom.

**V/8** Threaded bore version for glands

Here, tick version with Pg or metric thread.

The order form appendix can be copied from page 9/121.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

Enclosures with choice of command points

### Order form

for 3SB18 enclosed pushbutton units and indicator lights

To Siemens AG, A&D CD GKA LZA

Amberg, Fax: (+49 96 21) 80-31 02

Date

Purchaser's Order Reference/Order reference I

Supplier's order reference

Ⓘ Item No.  
Romii

Ⓛ Quantity  
Romii

Ⓜ Order No. supplement ..  
Romiii  
3SB18 ..... - ..... Z

Ⓝ With front rings  
Romiv  moulded plastic, black  
 metal, aluminized

Ⓥ V/4

Romv Inscription of the  
inscription plates  
(up to 11 characters  
1 to 3 lines)

V/1

Actuators  
(codes)

V/2

Contact blocks,  
lampholders,  
voltage reducers  
(codes)<sup>1)</sup>

V/3

Notes on non-standard ver-  
sions  
(lamp voltages, insert  
labels, special locks)

top or right			V/1	V/2	V/3
		F			
		E			
		D			
		C			
		B			
		A			
bottom or left					

NSD00050

A to F are identification letters on the inside of the covers and bases

V/5 Position of inscription plates for

- vertical mounting
- horizontal mounting

V/6 Special versions, e. g.

- Rear cable entry  
(suffix the Order No. with "-Z" and state  
the position of the cable entry in plain text)
- Yellow backing plate at command point "A" or  
yellow lid for single point enclosed units
- Design for use under extreme mechanical stress,  
e.g. impact against a wall,  
free fall onto a hard surface during mobile operation.
- Increased corrosion protection
- 

V/7 More than 6 command points

- This enclosure to be assembled with  
that ordered under Item .....  
to form ..... command points.

V/8 Threaded holes

- Pg thread:  
Pg 16 for 1 to 4 command points,  
Pg 21 for 6 command points.
- Metric thread:  
M 20 for 1 to 3 command points,  
M 25 for 4 and 6 command points.

1) If 3-position actuators are used, the numeric codes shown in this catalog for the contact block arrangement should be stated. (e. g. 03 for 2 NO, 05 for 2 NC etc.)

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

### Enclosures with choice of command points

#### Ordering example

- I Item 12 of an order calls for
- II 10 pieces 3SB1 enclosed pushbutton and indicator light units.
- III The following version is required:  
Moulded plastic enclosure with base mounting contact blocks and lampholders, 6 command points.
- IV The actuators are to be fitted with black moulded plastic front rings.
- V The command points with identification letters A to F are to be equipped as follows:
  - A: Pushbutton with flat pushbutton  
colour red  
contact block 1 NC  
inscription: "Off"
  - B: Pushbutton with flat pushbutton  
colour green  
contact block 1 NO  
inscription: "On"
  - C: Selector switch with switching sequence I – O – II  
maintained contact,  
colour black  
contact block 2NO  
Inscription: .... (code for switching sequence)
  - D: Illuminated pushbutton with flat button  
colour yellow  
contact block 1 NC + BA 9s lampholder  
lamp voltage 60 V  
inscription: none
  - E: CES safety lock, Lock No. SSG 10  
switching sequence O – I, maintained contact  
key removable in position O  
contact block 1 NO  
inscription: "Automatic"
  - F: Indicator light, colour clear  
BA 9s lampholder  
lamp voltage 60 V  
inscription: "Operation"

The unit is to be arranged for vertical mounting.

#### Order form

To Siemens AG, A&D CD GKA LZA

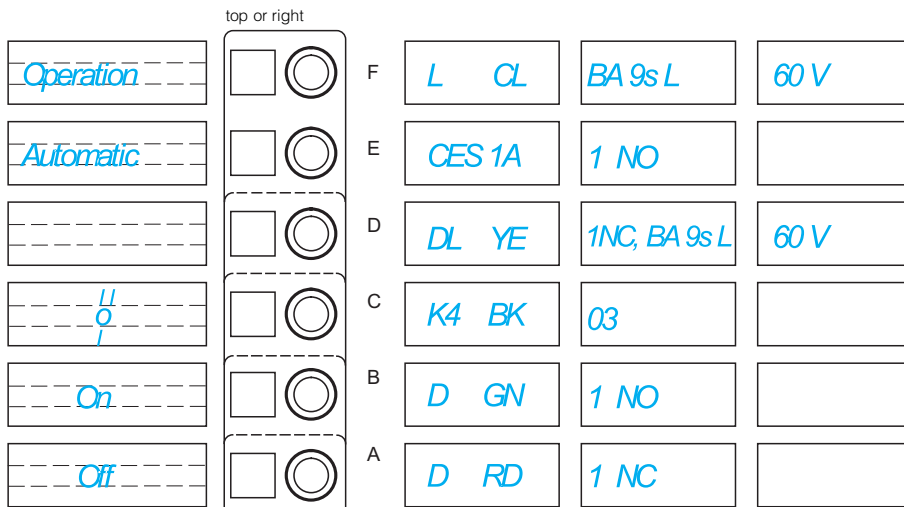
for 3SB18 enclosed pushbutton units and indicator lights

Amberg

Date Purchaser's Order Reference/Order reference I

Supplier's order reference

I Item No. <b>12</b>	II Quantity <b>10</b>	III Order No. supplement .. 3SB18 <b>06 – 0A Z</b>	IV With front rings <input type="checkbox"/> moulded plastic, black <input type="checkbox"/> metal, aluminized
V V/4 Inscription of the inscription plates (up to 11 characters 1 to 3 lines)	V/1 Actuators (codes)	V/2 Contact blocks, lampholder, voltage reducer (codes) <sup>1)</sup>	V/3 Notes on non-standard versions (lamp voltages, insert labels, special lock)



NSD00139

bottom or left ↑ A to F are identification letters on the inside of the covers and bases

- V/5 Position of inscription plates for
  - vertical mounting
  - horizontal mounting
- V/6 Special versions, e. g.
  - Cable entries on rear (append "-Z" to the order number and specify position of entry in plain text)
  - Yellow backing plate for command point "A" or yellow cover for enclosed devices with one command point
  - Design for use under extreme mechanical stress, e. g. impact against a wall, free fall onto a hard surface during mobile operation.
  - Increased corrosion protection
- V/7 More than 6 command points
  - This enclosure to be assembled with that ordered under Item..... to form ..... command points.
- V/8 Threaded holes
  - Pg thread: Pg 16 for 1 to 4 command points, Pg 21 for 6 command points.
  - Metric thread: M 20 for 1 to 3 command points, M 25 for 4 and 6 command points.

1) If 3-position actuators are used, the numerical codes shown in this catalog for the contact block arrangement should be stated (e.g. 03 for 2 NO, 05 for 2 NC, etc.)

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

Equipping the command points  
(order form, section V/1)

### Selection and ordering data

	Codes for colours													Add. price PG 102	
	aluminized	black	red	yellow	green	blue	white	clear							
<b>Actuators<sup>1)</sup></b>															
Blanking plug for 22.5 mm	BV	BV	BK	-	-	-	-	-	-	-	-	-	-	-	
Pushbutton with flat button	-	D	BK	D	RD	D	YE	D	GN	D	BU	D	WH	D	CL
Illuminated pushbutton with flat button	-	-		DL	RD	DL	YE	DL	GN	DL	BU	DL	WH	DL	CL
Pushbutton with raised button	-	D	BK	DH	RD	DH	YE	DH	GN	DH	BU	-		DH	CL
Illuminated pushbutton with raised button	-	-		DHL	RD	DHL	YE	DHL	GN	DHL	BU	DHL	WH	DHL	CL
Pushbutton with raised button, latching, releases by turning anticlockwise	-	DRD	BK	DRD	RD	-	-	-	-	-	-	-	-	-	-
Pushbutton with raised button, latching: by pressing and turning to the right, unlatching by turning to the left	-	-		DHR	RD	-	-	-	-	-	-	-	-	-	-
Mushroom push-pull button, Ø 40 mm, with spring action <sup>3)</sup>	-	-		DZ	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 30 mm, latching, releases by turning anticlockwise <sup>2)</sup>	-	-		PRD 30	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 40 mm, latching, releases by turning anticlockwise <sup>2)3)</sup>	-	-		PRD 40	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 40 mm, with positive latching function, releases by turning anticlockwise <sup>2)3)</sup>	-	-		PRÜ 40	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 70 mm, latching, releases by turning anticlockwise <sup>2)3)</sup>	-	-		PRD 70	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 40 mm, latching, with CES lock <sup>2)3)</sup> lock No. SSP 9	-	-		PSÜ 9	RD	-	-	-	-	-	-	-	-	-	-
SSG 10	-	-		PSÜ 10	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 40 mm, latching, with O.M.R. lock <sup>3)</sup> , lock No. 73037	-	-		PRS 73	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 40 mm, latching, with BKS lock <sup>3)</sup> , lock No. S1	-	-		PRS S1	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 40 mm, latching, with IKON lock <sup>3)</sup> , lock No. 360012 K1	-	-		PRS 36	RD	-	-	-	-	-	-	-	-	-	-
Mushroom pushbutton, Ø 30 mm	-	P	BK	-	P	YE	P	GN	-	-	-	-	-	-	-
Illuminated mushroom pushbutton, Ø 30 mm	-	-		-	PL	YE	PL	GN	-	-	PL	WH	-	-	-
Illuminated mushroom pushbutton, Ø 30 mm, latching	-	-		-	PLR	YE	PLR	GN	-	-	-	-	PLR	CL	-
Push-pull button, Ø 40 mm, with spring action <sup>3)</sup>	-	DZ	BK	-	-	-	-	-	-	-	-	-	-	-	-
Wobble stick, metal colour	T	-		-	-	-	-	-	-	-	-	-	-	-	-
Toggle, white	-	-		-	-	-	-	-	-	-	KH	WH	-	-	-
Indicator light with concentric rings	-	-		L	RD	L	YE	L	GN	L	BU	L	WH	L	CL
Indicator light for inscription with insert cap	-	-		-	LE	YE	-	-	-	-	-	-	LE	CL	-
Indicator light for use with glow lamps and LED lamps	-	-		LL	RD	LL	YE	LL	GN	LL	BU	-	-	-	-
Indicator light, raised design	-	-		LH	RD	LH	YE	LH	GN	-	-	-	LH	CL	-
Audible signal device	-	AMK	BK	-	-	-	-	-	-	-	-	-	-	-	-

For special designs, see page 9/126.

1) For more details about these actuators, see pages 9/86 to 9/88 and 9/96.

2) Can only be fitted with a maximum of 3 contact blocks.

3) A blank space must be left next to this actuator.

# Pushbutton Units and Indicator Lights


## 3SB1, Mounting Diameter 22 mm, Enclosed

Equipping the command points  
(order form, section V/1)


### Selection and ordering data

Codes for colours							Add. price
black	red	yellow	green	blue	white	clear	PG 102


#### Selector switches with 2 switching positions <sup>1)</sup>

Switching sequence O-I  maintained contact

Non-illuminated	<b>nss 00440g</b>	K1	BK	K1	RD	-		K1	GN	-		K1	WH	-		
Illuminated		-		BK1	RD	BK1	YE	BK1	GN	BK1	BU	-		BK1	CL	


Switching sequence O-I  momentary contact to the right (with return from the right)

Non-illuminated	<b>nss 00441g</b>	K2	BK	K2	RD	-		K2	GN	-		K2	WH	-		
Illuminated		-		BK2	RD	BK2	YE	BK2	GN	BK2	BU	-		BK2	CL	

Switching sequence I-O  momentary contact to the left (with return from the left)

Non-illuminated	<b>nss 00442g</b>	K3	BK	K3	RD	-		K3	GN	-		K3	WH	-		
Illuminated		-														


#### Selector switches with 3 switching positions <sup>1)</sup>

Switching sequence I-O-II  maintained contact


Non-illuminated	<b>nss 00448g</b>	K4	BK	K4	RD	-		K4	GN	-		K4	WH	-		
Illuminated		-		BK4	RD	BK4	YE	BK4	GN	BK4	BU	-		BK4	CL	

Switching sequence I-O-II  momentary contact (with return from right and left)

Non-illuminated	<b>nss 00445g</b>	K5	BK	K5	RD	-		K5	GN	-		K5	WH	-		
Illuminated		-		BK5	RD	BK5	YE	BK5	GN	BK5	BU	-		BK5	CL	

Switching sequence I-O-II  maintained contact to the right, momentary contact to the left (with return from the left)

Non-illuminated	<b>nss 00446g</b>	K6	BK	K6	RD	-		K6	GN	-		K6	WH	-		
Illuminated		-														

Switching sequence I-O-II  maintained contact to the left, momentary contact to the right (with return from the right)

Non-illuminated	<b>nss 00447g</b>	K7	BK	K7	RD	-		K7	GN	-		K7	WH	-		
Illuminated		-														

For special designs, see page 9/126.




1) For more details about these actuators, see pages 9/89 to 9/90.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

Equipping the command points  
(order form, section V/1)

### Selection and ordering data

	Code							Add. price PG 102	
	Key removable in position								
	O	I	II	O and I	O and II	I and II	I, O and II		
<b>Key-operated switches with 2 switching positions <sup>1)</sup></b>									
Switching sequence O-I  maintained contact									
CES key-operated switch, Lock No. SSG 10 <b>nss 00440g</b> Lock No. LSG1	CES CESL	1A 1A	CES -	1E -	- -	CES CESL	1AE 1AE	- -	- -
IKON key-operated switch, Lock No. 360012 K1	Z-J	1A	ZJ	1E	-	Z-J	1AE	-	-
BKS key-operated switch, Lock No. S1 Lock No. E1 (for VW) Lock No. E2 (for VW) Lock No. E7 (for VW) Lock No. E9 (for VW)	BKS BKS A BKS E BKS C BKS B	1A 1A 1A 1A 1A	BKS -	1E -	- -	BKS BKS A BKS E BKS C BKS B	1AE 1AE 1AE 1AE 1AE	- - - - -	- - - - -
O.M.R. key-operated switch black, Lock No. 73034	OMR BK	1A	OMR BK	1E	-	OMR BK	1AE	-	-
Switching sequence O-I  momentary contact to the right (with return from the right)									
CES key-operated switch, Lock No. SSG 10 <b>nss 00441g</b>	CES	2A	-	-	-	-	-	-	-
IKON key-operated switch, Lock No. 360012 K1	Z-J	2A	-	-	-	-	-	-	-
BKS key-operated switch, Lock No. S1	BKS	2A	-	-	-	-	-	-	-
O.M.R. key-operated switch black, Lock No. 73034	OMR BK	2A	-	-	-	-	-	-	-
Switching sequence I-O  momentary contact to the left (with return from the left)									
CES key-operated switch, Lock No. SSG 10 <b>nss 00442g</b>	-	-	CES	3E	-	-	-	-	-
IKON key-operated switch, Lock No. 360012 K1	-	-	Z-J	3E	-	-	-	-	-
BKS key-operated switch, Lock No. S1	-	-	BKS	3E	-	-	-	-	-
O.M.R. key-operated switch black, Lock No. 73034	-	-	OMR BK	3E	-	-	-	-	-

For special designs, see page 9/126.

1) For more details about these actuators,  
see pages 9/92 to 9/94.

# Pushbutton Units and Indicator Lights


## 3SB1, Mounting Diameter 22 mm, Enclosed

### Equipping the command points (order form, section V/1)

#### Selection and ordering data

Code	Key removable in position							Add. price PG 102
	O	I	II	O and I	O and II	I and II	I, O and II	


#### Key-operated switches with 3 switching positions <sup>1)</sup>

Switching sequence I-O-II  maintained contact


CES key-operated switches, Lock No. SSG 10 <span style="color: green;">nss 00448g</span>	CES	4A	CES	4E	CES	4D	-	-	CES	4ED	CES	4EAD	
IKON key-operated switch, Lock No. 360012 K 1	Z-J	4A	Z-J	4E	Z-J	4D	-	-	Z-J	4ED	Z-J	4EAD	
BKS key-operated switch, Lock No. S1	BKS	4A	BKS	4E	BKS	4D	-	-	BKS	4ED	BKS	4EAD	
O.M.R. key-operated switch black, Lock No. 73034	OMR BK4A	-	-	-	-	-	-	-	OMR BK	4ED	OMR BK	4EAD	

Switching sequence I-O-II  momentary contact (with return from right and left)

CES key-operated switch, Lock No. SSG 10 <span style="color: green;">nss 00445g</span>	CES	5A	-	-	-	-	-	-	-	-	-	
IKON key-operated switch, Lock No. 360012 K 1	Z-J	5A	-	-	-	-	-	-	-	-	-	
BKS key-operated switch, Lock No. S1	BKS	5A	-	-	-	-	-	-	-	-	-	
O.M.R. key-operated switch black, Lock No. 73034	OMR BK5A	-	-	-	-	-	-	-	-	-	-	

Switching sequence I-O-II  maintained contact to the right, momentary contact to the left (with return from the left)

CES key-operated switch, Lock No. SSG 10 <span style="color: green;">nss 00446g</span>	CES	6A	-	CES	6D	-	CES	6AD	-	-	-	
IKON key-operated switch, Lock No. 360012 K 1	Z-J	6A	-	Z-J	6D	-	Z-J	6AD	-	-	-	
BKS key-operated switch, Lock No. S1	BKS	6A	-	BKS	6D	-	BKS	6AD	-	-	-	
O.M.R. key-operated switch black, Lock No. 73034	OMR BK6A	-	-	OMR BK6D	-	-	-	-	-	-	-	

Switching sequence I-O-II  maintained contact to the left, momentary contact to the right (with return from the right)

CES key-operated switch, Lock No. SSG 10 <span style="color: green;">nss 00447g</span>	CES	7A	CES	7E	-	CES	7AE	-	-	-	-	
IKON key-operated switch, Lock No. 360012 K 1	Z-J	7A	Z-J	7E	-	Z-J	7AE	-	-	-	-	
BKS key-operated switch, Lock No. S1	BKS	7A	BKS	7E	-	BKS	7AE	-	-	-	-	
O.M.R. key-operated switch black, Lock No. 73034	OMR BK7A	-	OMR BK7E	-	-	-	-	-	-	-	-	

#### Non-standard versions (order form, section V/6)

3SB18 enclosed pushbutton units	Additional charge PG 102		3SB18 enclosed pushbutton units	Additional charge PG 102	
with metal front ring	per command point		1 rear cable entry	on request	
Fitting a yellow backing plate	per command point		2 rear cable entries		
Enclosure with yellow lid <sup>2)</sup>			Combining two enclosures		
Version with increased rust protection, with	Moulded plastic encl.	Metal enclosure	<ul style="list-style-type: none"> <li>with Pg 16 gland (1 to 4 command points)</li> <li>with Pg 21 gland (6 command points)</li> </ul>		
<ul style="list-style-type: none"> <li>1 command point</li> <li>2 command points</li> <li>3 command points</li> <li>4 command points</li> <li>6 command points</li> </ul>			Design for use under extreme mechanical stress (State the required design in plain text in the Order Form under V/6).		

1) For more details about these actuators, see pages 9/92 to 9/94.

2) Only possible for single point enclosed pushbutton units.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm, Enclosed

Equipping the command points  
(order form, section V/2)

### Selection and ordering data

Version	Code		Additional charge PG 102			
<b>Contact blocks, lampholders, voltage reducers</b>						
Codes for lampholders and actuators with 2 switching positions	Contact block	NO	<b>S</b>			
		NC	<b>Ö</b>			
		NO leading	<b>S V</b>			
		NC lagging	<b>Ö N</b>			
Pushbutton, Illuminated pushbutton, Indicator lamp, Indicator lamp with lamp test	BA 9s lampholder without lamp	<b>BA 9 s</b>				
	BA 9s lampholder with lamp, Enter order No. under V/3 (Notes) <sup>1)</sup>	<b>BA 9s L</b>				
	BA 9s lampholder + voltage reducer (operational voltage AC 230 V for connecting a 130 V lamp) + lamp	<b>BA 9s VL</b>				
	BA 9s lampholder + audible signal device	DC 24 V	<b>BA 9s S</b>			
Support terminals	brown	<b>Sk BN</b>				
	blue	<b>Sk BU</b>				
	green/yellow	<b>Sk GNYE</b>				
Fitting a thrust cap	<b>3SB19 02-0AA</b>					
Fitting a thrust pad	<b>3SB19 12-0AN</b>					
Number and type of contact blocks	in position I		in position II		Code	Additional charge PG 102
	actuated	contact identification	actuated	contact identification		
Code for actuators with 3 switching positions	none	–	–	–	00	
	2 NO	1 NO	13/14	1 NO	23/24	03
	1 NO + 1 NC	1 NO	13/14	1 NC	21/22	04
	2 NC	1 NC	11/12	1 NC	21/22	05
	3 NO	2 NO	13/14 and 33/34	2 NO	23/24	07
		1 NO	13/14	2 NO	23/24 and 33/34	08
		2 NO	13/14 and 33/34 <sup>2)</sup>	2 NO	23/24 and 33/34 <sup>2)</sup>	06
	2 NO+1 NC	2 NO	13/14 and 33/34	1 NC	21/22	11
		1 NO	13/14	1 NC + 1 NO	21/22 and 33/34	12
		2 NO	13/14 and 33/34 <sup>2)</sup>	1 NC + 1 NO	21/22 and 33/34 <sup>2)</sup>	10
		1 NO + 1 NC	13/14 and 31/32	1 NC + 1 NC	23/24 and 31/32	19
	1 NO + 2 NC	1 NO + 1 NC	13/14 and 31/32	1 NC	21/22	14
		1 NO	13/14	2 NC	21/22 and 31/32	15
		1 NO + 1 NC	13/14 and 31/32 <sup>2)</sup>	2 NC	21/22 and 31/32 <sup>2)</sup>	13
3 NC	2 NC	11/12 and 31/32	1 NC	21/22	17	
	1 NC	11/12	2 NC	21/22 and 31/32	18	
	2 NC	11/12 and 31/32 <sup>2)</sup>	2 NC	21/22 and 31/32 <sup>2)</sup>	16	

### Possible complements of contact blocks and lampholders

Number of command points in enclosure	Number of contact blocks/lampholders per command point					
	A	B	C	D	E	F
1	5	–	–	–	–	–
2	4	4	–	–	–	–
3	4	3	4	–	–	–
4	4	3	3	4	–	–
6	4	3	3	3	3	4

Equipping the command points  
(order form, section V/4)

Inscription	Additional charge PG 102
<b>Inscription plates</b> (included in scope of supply of enclosed pushbutton units)	
Inscription in accordance with the table on page 9/117.	
Special inscription	Laser-printed inscription
Without inscription plate	without

1) For lamps, see page 9/112.

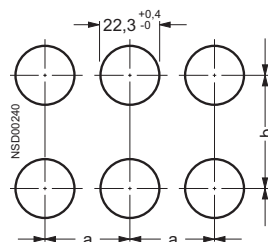
2) This contact block is actuated in positions I and II.

# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

### Dimension drawings Actuators and indicator elements

#### Mounting dimensions



#### Round design

Minimum clearance		a	b
Contact blocks with	1 contact	30	40
	2 contacts	30	50 <sup>1)</sup>
	1 contact, short version	30	50
Contact blocks and lampholders with soldering pins	for use on PCBs	30	30
Lampholder with transformer	60 mm mounting depth	40	40
Joystick switches	without inscription plate, with		
	• 2 switching positions, horizontal	75	50
	• 2 switching positions, vertical	30	75
	4 positions	75	75
	with inscription plate, with		
	• 2 switching positions, horizontal	89	50
• 2 switching positions, vertical	30	89	
	4 switching positions	89	89
Use with	3SB 19 01-0 .. label mounts	30	50
	3SB 19 06-0 .. label mounts	30	60
	a protective cap	35	40
	a sealable cap	35	40
Use with	Potentiometer drive	40	40
Use with	Contact blocks retrofitted with 3SB19 02-0AW tab connectors	30	100
	Key-operated switches, lock cylinder Ø 28.5 mm, for pass key systems	40	40
	Holder for 5 contact blocks	51.5	40 <sup>2)</sup>

Please take account of the diameter of the button in the case of mushroom pushbutton units. Locks with Ø 28.5 mm lock cylinder for pass key systems cannot be fitted.

Minimum spacing according to IEC 60 947-5-1: a × b = 30 mm × 50 mm

\* A minimum spacing of 30 mm must be maintained observed.

#### Square design with frame

	Versions without inscription plate		Versions for 12.5 × 27 mm inscription plate		Versions for 27 × 27 mm inscription plate	
	a	b	a	b	a	b

#### Single frames

Contact blocks	32	40	32	46.2	32	60
• with 1 contact	32	50	32	50	32	60
• with 2 contacts	32	50	32	50	32	60
• for 43 mm mounting depth						

#### Double and triple frames

Contact blocks	30*	40	30*	46.2	30*	60
• with 1 contact	30*	50	30*	50	30*	60
• with 2 contacts	30*	50	30*	50	30*	60
• for 43 mm mounting depth						

1) Minimum spacing! Depending on the number of components fitted per control point and the method of connection used, a spacing of 55 mm or more may be required.

2) 50 mm for contact blocks with 2 contacts.

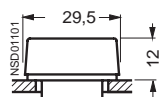
# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

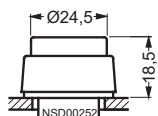
Dimension drawings  
Actuators and indicator elements

### Actuators

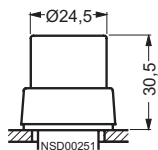
**Pushbutton or illuminated pushbutton with flat button**



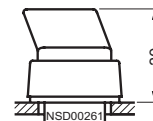
**Pushbutton or illuminated pushbutton with raised button**



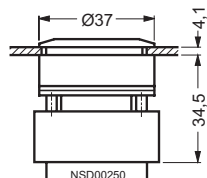
**Pushbutton with raised button latching or locking**



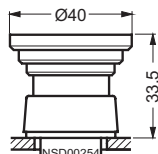
**Selector switch or illuminated selector switch**



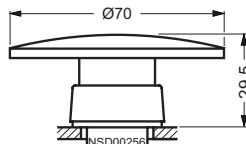
**Pushbutton with recessed front ring**



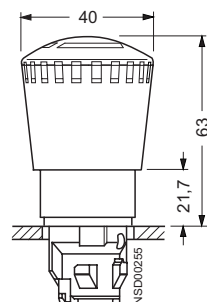
**Mushroom push-pull button with spring action, Ø 40 mm**



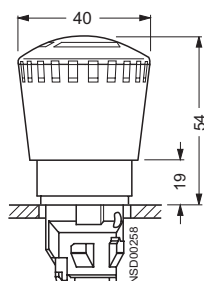
**Mushroom pushbutton latching, Ø 70 mm**



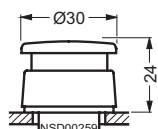
**EMERGENCY-STOP mushroom pushbutton, with positive latching function acc. to EN 418, with lock, Ø 40 mm**



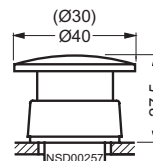
**EMERGENCY-STOP mushroom pushbutton, with positive latching function acc. to EN 418, Ø 40 mm**



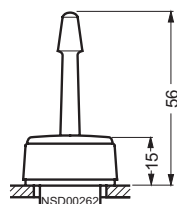
**Mushroom pushbutton, illuminated mushroom pushbutton or latchable illuminated mushroom pushbutton, Ø 30 mm**



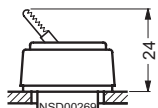
**Mushroom pushbutton, latching mushroom pushbutton, Ø 40 mm (Ø 30 mm)**



**Pushbutton with wobble stick**



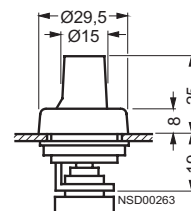
**Toggle, 12 mm stroke, for fixing with ring nut**



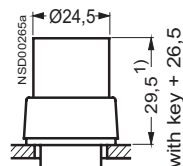
**Pushbutton with extended stroke 12 mm stroke, for fixing with ring nut**



**Potentiometer mechanism with Ø 6 mm shaft 30 to 32 mm long**

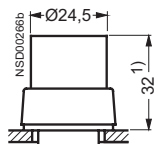


**CES key-operated switch**



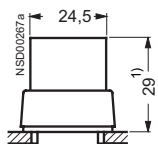
1) 35.5 or 38 for pass key systems (+23 with key; large profile: with key +33)

**IKON key-operated switch**



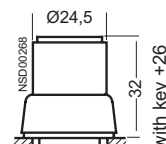
1) 35.5 or 38 for pass key systems (+23 with key; large profile: with key +33)

**BKS key-operated switch**



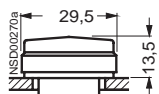
1) 35.5 or 38 for pass key systems (+23 with key; large profile: with key + 33)

**O.M.R. key-operated switch**

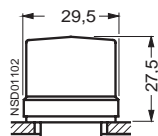


### Indicator elements

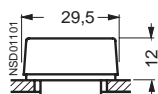
**Indicator light, flat**



**Indicator light, raised**



**Holder for audible signal device**



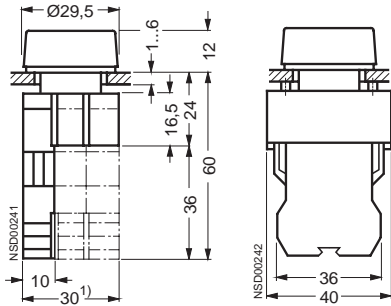
# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

**Dimension drawings**  
**Contact blocks and lampholders**

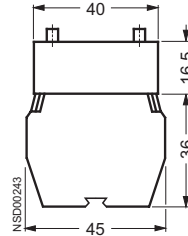
### Front plate mounting contact blocks and lampholders

**Contact block with 1 NO or 1 NC contact or lampholder with built-in voltage reducer**

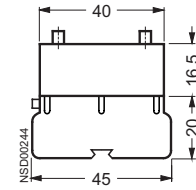


1) Holder for 5 contact blocks: 51.5 mm.

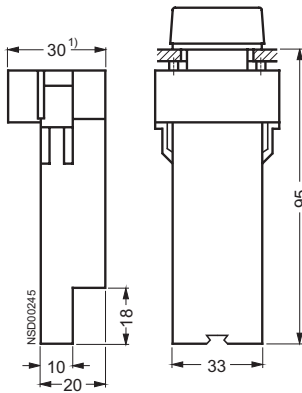
**Contact block with 1 NO + 1 NC or 2 NC or 2 NO or 1 NO + 1 NC contacts or lampholder with separate lamp test facility with holder**



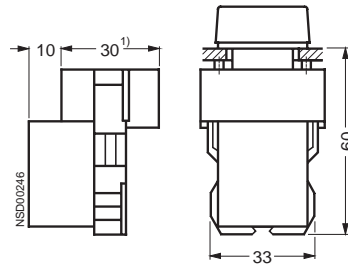
**Contact block with 1 NO or 1 NC contact or lampholder, short version with holder**



**Lampholder with transformer long version**

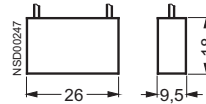


**Lampholder with transformer short version**

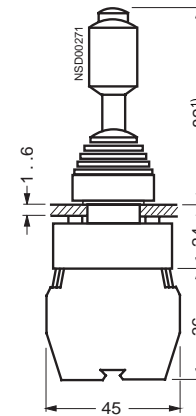


1) Holder for 5 contact blocks: 51.5 mm.

**Voltage reducer**



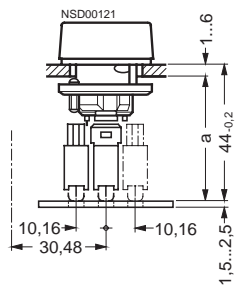
**Joystick switch**



1) 82 with mechanical interlock, 77 without mechanical interlock

### Contact blocks and lampholders with soldering pins for use on printed circuit boards

**Pushbutton or illuminated pushbutton with contact block and lampholder with solder pins**



Length **a** of spacers **a** = 44<sup>-0.2</sup> minus front plate thickness.

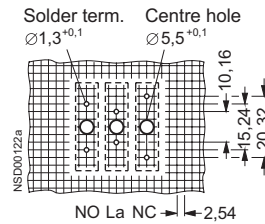
When using backing plates, the length **a** is reduced by 0.8 mm.

To avoid bending the PCB when the pushbuttons are operated, sufficient spacers must be provided spaced as shown in the table below:

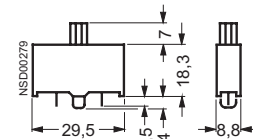
for plate thickness 1.5 mm:	80 mm
for plate thickness 2.5 mm:	150 mm
for EMERGENCY-STOP switches:	50 mm

(These values apply to PCBs made from epoxy resin laminate with glass fabric base)

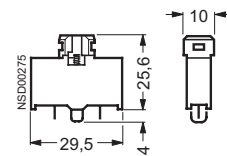
**Spacing of solder pins**



**Contact block with solder pins**

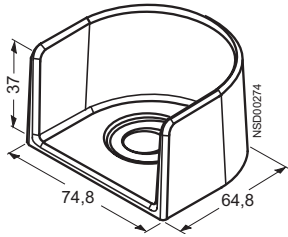


**Lampholder with solder pins**

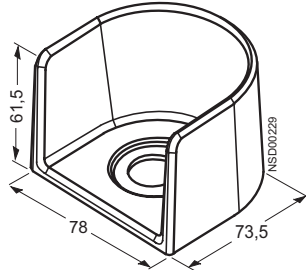


#### Accessories for EMERGENCY-STOP mushroom pushbuttons

**3SB19 02-2BM protective collar**  
for front panel mounting,  
for EMERGENCY-STOP  
mushroom pushbutton unit  
without positive latching,  
for front plates 1 to 4.5 mm thick

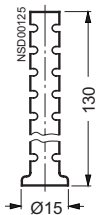


**3SB39 21-0AK protective collar**  
for front panel mounting,  
for EMERGENCY-STOP  
mushroom pushbutton unit  
with positive latching function, without lock  
for front plates up to 4 mm thick



#### Accessories for pushbuttons with flat button

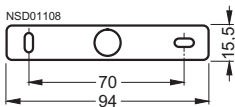
##### Extension plunger



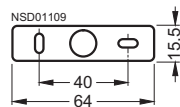
The plunger can be shortened  
by 3 mm.

#### Primary nameplates and rectangular frames

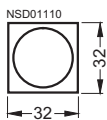
**Label mount, 94 mm long,**  
for primary label  
12.5 mm × 91 mm



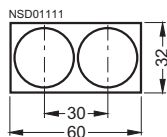
**Label mount, 64 mm long,**  
for primary label  
12.5 mm × 61 mm



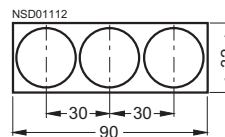
**Single frame**  
without inscription plate



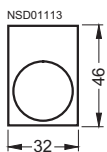
**Double frame**  
without inscription plate



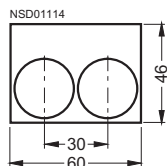
**Triple frame**  
without inscription plate



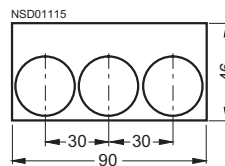
**Single frame**  
for inscription plate  
12.5 mm × 27 mm



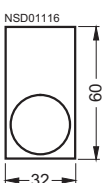
**Double frame**  
for inscription plate  
12.5 mm × 27 mm



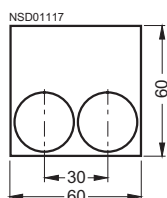
**Triple frame**  
for inscription plate  
12.5 mm × 27 mm



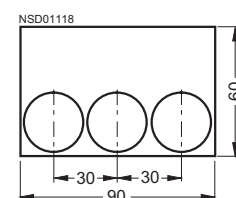
**Single frame**  
for inscription plate  
27 mm × 27 mm



**Double frame**  
for inscription plate  
27 mm × 27 mm



**Triple frame**  
for inscription plate  
27 mm × 27 mm



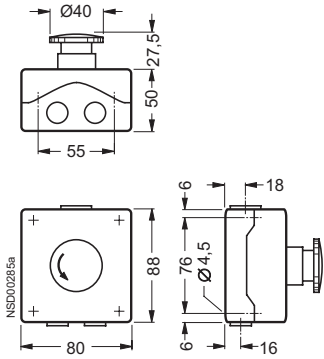
# Pushbutton Units and Indicator Lights

## 3SB1, Mounting Diameter 22 mm

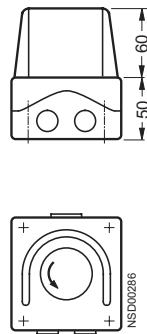
### Dimension drawings Enclosed control units

#### Units with standard equipment

Enclosed pushbutton unit  
EMERGENCY-STOP

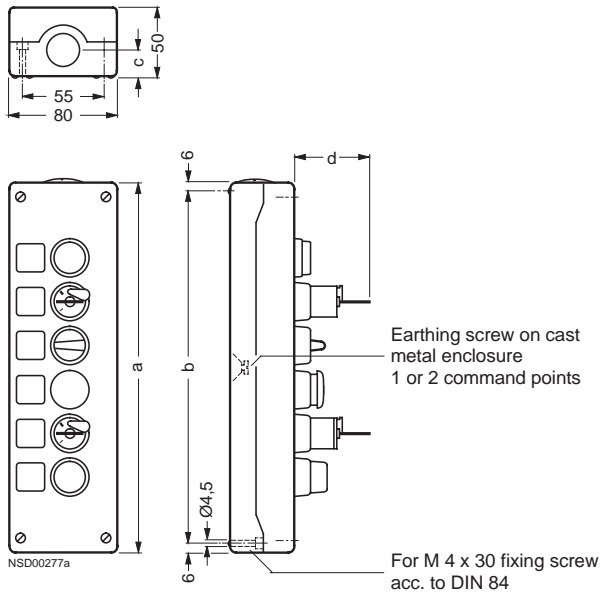


Enclosed pushbutton unit  
with protective collar

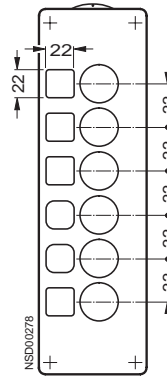


#### Units with choice of equipment

Enclosures



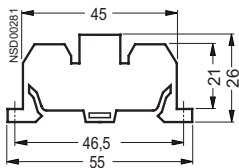
Spacing of command points



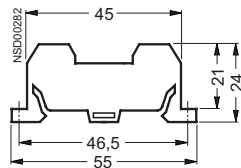
Number of command points	a	b	c	d
1	88	76	18	Height of actuators depending on selection
2	124	112	18	
3	162	150	18	
4	200	188	18	
6	276	264	21	

#### Base mounting contact blocks and lampholders

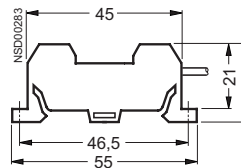
Contact block with 1 NO or 1 NC or lampholder



Support terminal  
3SB19 02-2A



Voltage reducer  
3SB14 20-3A



Voltage reducer  
3SB14 20-3D

