




E22 and EM22 Series, Illuminated Pushbutton Components

Illuminated Pushbutton Components

Table 2-32. Illuminated Pushbutton and PresTest Indicating Light Operators — UL (NEMA) 3, 3R, 4, 4X, 12, 13

Will Accept Maximum of 2 Contact Blocks (4 Circuits) When Used with Supplied 3-Way Adapter	Colour	E22 Series Plastic Operators		EM22 Series Metal Operators	
		Black Bezel	Chrome Bezel	Chrome Bezel	
		Catalogue Number	Catalogue Number	Catalogue Number	
	25 mm Diameter Flush Lens				
	Red	E22NB2	E22N2	EM22N2	
	Green	E22NB3	E22N3	EM22N3	
	Yellow	E22NB4	E22N4	EM22N4	
	White	E22NB5	E22N5	EM22N5	
	Blue	E22NB6	E22N6	EM22N6	
	Amber	E22NB9	E22N9	EM22N9	
	Clear	E22NB0	E22N0	EM22N0	
		25 mm Diameter Extended Lens			
		Red	E22TB2	E22T2	EM22T2
Green		E22TB3	E22T3	EM22T3	
Yellow		E22TB4	E22T4	EM22T4	
White		E22TB5	E22T5	EM22T5	
Blue		E22TB6	E22T6	EM22T6	
Amber		E22TB9	E22T9	EM22T9	
Clear		E22TB0	E22T0	EM22T0	
		25 mm Dia. Extended ^① Lens with Shroud			
		Red	—	E22TX2	EM22TX2
	Green	—	E22TX3	EM22TX3	
	Yellow	—	E22TX4	EM22TX4	
	White	—	E22TX5	EM22TX5	
	Blue	—	E22TX6	EM22TX6	
	Amber	—	E22TX9	EM22TX9	
	Clear	—	E22TX0	EM22TX0	

^① If a Flush Lens type is required instead of Extended, substitute **N** for **T** in listed Catalogue Number.

Example: E22NX2 — Red flush illuminated pushbutton with full shroud. Chrome version only.

Note: Dimensions are listed on **Page 2-82**. For Rear of Panel Extensions, see **Table 2-124** on **Page 2-87**.

Accessories	Pages 2-67 – 2-71
Contact Blocks	Page 2-62
Enclosures	Pages 2-80 – 2-81
Legend Plates	Pages 2-72 – 2-78
Light Units	Pages 2-63 – 2-64
Suffix Codes	Page 2-91
Commande d'étiquettes	Pages A-1

March 2007

E22 and EM22 Series, Complete Devices — Push-Push Units

Alternate-Action (Push-Push) Pushbutton Units

- Non-illuminated or Illuminated
- Plastic or Metal Operators
- Black or Chrome Bezel
- Flush or Extended Operators



Description
Listed below are commonly ordered complete pushbutton devices including operator and contact block(s). These devices are shipped as unassembled

components overpacked in a single bag. For instructions on how to order devices not listed below using a single composite Catalogue Number, refer to **Page 2-88**.



Table 2-33. E22 and EM22 Series Non-illuminated Flush and Extended Alternate-Action Units — UL (NEMA) 3, 3R, 4, 4X, 12, 13

	Button Colour	Contact Block Circuit				
		NO	NC	NO-NC	2NO	2NC
		Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number



E22 Series — Plastic Operators – Black Bezel

	Flush					
	Black White Grey	E22PPB1A E22PPB5A E22PPB7A	E22PPB1B E22PPB5B E22PPB7B	E22PPB1C E22PPB5C E22PPB7C	E22PPB1D E22PPB5D E22PPB7D	E22PPB1E E22PPB5E E22PPB7E
	Extended					
	Black White Grey	E22EPB1A E22EPB5A E22EPB7A	E22EPB1B E22EPB5B E22EPB7B	E22EPB1C E22EPB5C E22EPB7C	E22EPB1D E22EPB5D E22EPB7D	E22EPB1E E22EPB5E E22EPB7E

E22 Series — Plastic Operators – Chrome Bezel

	Flush					
	Black White Grey	E22PP1A E22PP5A E22PP7A	E22PP1B E22PP5B E22PP7B	E22PP1C E22PP5C E22PP7C	E22PP1D E22PP5D E22PP7D	E22PP1E E22PP5E E22PP7E
	Extended					
	Black White Grey	E22EP1A E22EP5A E22EP7A	E22EP1B E22EP5B E22EP7B	E22EP1C E22EP5C E22EP7C	E22EP1D E22EP5D E22EP7D	E22EP1E E22EP5E E22EP7E

EM22 Series — Metal Operators – Chrome Bezel

	Flush					
	Black White Grey	EM22PP1A EM22PP5A EM22PP7A	EM22PP1B EM22PP5B EM22PP7B	EM22PP1C EM22PP5C EM22PP7C	EM22PP1D EM22PP5D EM22PP7D	EM22PP1E EM22PP5E EM22PP7E
	Extended					
	Black White Grey	EM22EP1A EM22EP5A EM22EP7A	EM22EP1B EM22EP5B EM22EP7B	EM22EP1C EM22EP5C EM22EP7C	EM22EP1D EM22EP5D EM22EP7D	EM22EP1E EM22EP5E EM22EP7E

Note: Dimensions are listed on **Page 2-82**.

Note: In order to comply with NFPA 79 and IEC 60204-1 requirements:

The colours black, white or grey shall be used for Push-Push operators which act alternately as START/ON and STOP/OFF pushbuttons.

Push-Push operators shall only be used for functions which can not result in a hazardous condition.



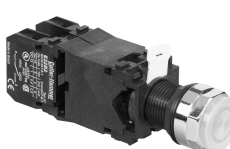


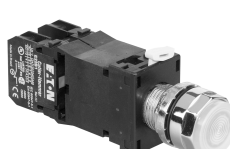
IEC 60204-1 recommends that Push-Push operators acting alternately as START/ON and STOP/OFF pushbuttons be marked with the printed legend N124.

Accessories **Pages 2-67 – 2-71**
 Enclosures **Pages 2-80 – 2-81**
 Legend Plates **Pages 2-72 – 2-78**
 Commande d'étiquettes **Pages A-1**



E22 and EM22 Series, Complete Devices — Push-Push Units

Table 2-34. E22 and EM22 Series Illuminated Flush Alternate-Action Units — UL (NEMA) 3, 3R, 4, 4X, 12, 13

	Button Colour	Contact Block Circuit				
		NO	NC	NO-NC	2NO	2NC
		Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
E22 Series — Plastic Operators — Chrome Bezel						
24V AC/DC Full Voltage, Flush						
	White Clear	E22NP5X4A E22NP0X4A	E22NP5X4B E22NP0X4B	E22NP5X4C E22NP0X4C	E22NP5X4D E22NP0X4D	E22NP5X4E E22NP0X4E
120V AC/DC Resistor, Flush						
	White Clear	E22NP5X10A E22NP0X10A	E22NP5X10B E22NP0X10B	E22NP5X10C E22NP0X10C	E22NP5X10D E22NP0X10D	E22NP5X10E E22NP0X10E
120V AC Transformer — 50/60 Hz, Flush						
	White Clear	E22NP5X11A E22NP0X11A	E22NP5X11B E22NP0X11B	E22NP5X11C E22NP0X11C	E22NP5X11D E22NP0X11D	E22NP5X11E E22NP0X11E
EM22 Series — Metal Operators — Chrome Bezel						
24V AC/DC Full Voltage Unit, Flush						
	White Clear	EM22NP5X4A EM22NP0X4A	EM22NP5X4B EM22NP0X4B	EM22NP5X4C EM22NP0X4C	EM22NP5X4D EM22NP0X4D	EM22NP5X4E EM22NP0X4E
120V AC/DC Resistor Unit, Flush						
	White Clear	EM22NP5X10A EM22NP0X10A	EM22NP5X10B EM22NP0X10B	EM22NP5X10C EM22NP0X10C	EM22NP5X10D EM22NP0X10D	EM22NP5X10E EM22NP0X10E
120V AC Transformer Unit, Flush						
	White Clear	EM22NP5X11A EM22NP0X11A	EM22NP5X11B EM22NP0X11B	EM22NP5X11C EM22NP0X11C	EM22NP5X11D EM22NP0X11D	EM22NP5X11E EM22NP0X11E

Note: Dimensions are listed on **Page 2-82**.

Note: In order to comply with NFPA 79 and IEC 60204-1 requirements:

White shall be used for Illuminated Push-Push operators which act alternately as START/ON and STOP/OFF pushbuttons.

Push-Push operators shall only be used for functions which can not result in a hazardous condition.



IEC 60204-1 recommends that Push-Push operators acting alternately as START/ON and STOP/OFF pushbuttons be marked with the printed legend N124.

Accessories	Pages 2-67 – 2-71
Enclosures	Pages 2-80 – 2-81
Legend Plates	Pages 2-72 – 2-78
Commande d'étiquettes	Pages A-1

March 2007

E22 and EM22 Series, Complete Devices — Push-Push Units

Table 2-35. E22 and EM22 Series Illuminated Bezel Flush Assembled Push-Push Units — UL (NEMA) 3, 3R, 4, 4X, 12, 13

	Button Colour	Contact Block Circuit				
		NO	NC	NO-NC	2NO	2NC
		Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
E22 Series — Plastic Operators — Chrome Bezel						
	24V AC/DC Full Voltage, Flush, Illuminated Bezel					
	Red	E22TP2X4A	E22TP2X4B	E22TP2X4C	E22TP2X4D	E22TP2X4E
	Green	E22TP3X4A	E22TP3X4B	E22TP3X4C	E22TP3X4D	E22TP3X4E
	White	E22TP5X4A	E22TP5X4B	E22TP5X4C	E22TP5X4D	E22TP5X4E
	Blue	E22TP6X4A	E22TP6X4B	E22TP6X4C	E22TP6X4D	E22TP6X4E
	Amber	E22TP9X4A	E22TP9X4B	E22TP9X4C	E22TP9X4D	E22TP9X4E
	Clear	E22TP0X4A	E22TP0X4B	E22TP0X4C	E22TP0X4D	E22TP0X4E
	120V AC/DC Resistor, Flush, Illuminated Bezel					
	Red	E22TP2X10A	E22TP2X10B	E22TP2X10C	E22TP2X10D	E22TP2X10E
	Green	E22TP3X10A	E22TP3X10B	E22TP3X10C	E22TP3X10D	E22TP3X10E
	White	E22TP5X10A	E22TP5X10B	E22TP5X10C	E22TP5X10D	E22TP5X10E
	Blue	E22TP6X10A	E22TP6X10B	E22TP6X10C	E22TP6X10D	E22TP6X10E
	Amber	E22TP9X10A	E22TP9X10B	E22TP9X10C	E22TP9X10D	E22TP9X10E
	Clear	E22TP0X10A	E22TP0X10B	E22TP0X10C	E22TP0X10D	E22TP0X10E
	120V AC Transformer — 50/60 Hz, Flush, Illuminated Bezel					
	Red	E22TP2X11A	E22TP2X11B	E22TP2X11C	E22TP2X11D	E22TP2X11E
	Green	E22TP3X11A	E22TP3X11B	E22TP3X11C	E22TP3X11D	E22TP3X11E
	White	E22TP5X11A	E22TP5X11B	E22TP5X11C	E22TP5X11D	E22TP5X11E
	Blue	E22TP6X11A	E22TP6X11B	E22TP6X11C	E22TP6X11D	E22TP6X11E
	Amber	E22TP9X11A	E22TP9X11B	E22TP9X11C	E22TP9X11D	E22TP9X11E
	Clear	E22TP0X11A	E22TP0X11B	E22TP0X11C	E22TP0X11D	E22TP0X11E
EM22 Series — Metal Operators — Chrome Bezel						
	24V AC/DC Full Voltage Unit, Flush, Illuminated Bezel					
	Red	EM22TP2X4A	EM22TP2X4B	EM22TP2X4C	EM22TP2X4D	EM22TP2X4E
	Green	EM22TP3X4A	EM22TP3X4B	EM22TP3X4C	EM22TP3X4D	EM22TP3X4E
	White	EM22TP5X4A	EM22TP5X4B	EM22TP5X4C	EM22TP5X4D	EM22TP5X4E
	Blue	EM22TP6X4A	EM22TP6X4B	EM22TP6X4C	EM22TP6X4D	EM22TP6X4E
	Amber	EM22TP9X4A	EM22TP9X4B	EM22TP9X4C	EM22TP9X4D	EM22TP9X4E
	Clear	EM22TP0X4A	EM22TP0X4B	EM22TP0X4C	EM22TP0X4D	EM22TP0X4E
	120V AC/DC Resistor Unit, Flush, Illuminated Bezel					
	Red	EM22TP2X10A	EM22TP2X10B	EM22TP2X10C	EM22TP2X10D	EM22TP2X10E
	Green	EM22TP3X10A	EM22TP3X10B	EM22TP3X10C	EM22TP3X10D	EM22TP3X10E
	White	EM22TP5X10A	EM22TP5X10B	EM22TP5X10C	EM22TP5X10D	EM22TP5X10E
	Blue	EM22TP6X10A	EM22TP6X10B	EM22TP6X10C	EM22TP6X10D	EM22TP6X10E
	Amber	EM22TP9X10A	EM22TP9X10B	EM22TP9X10C	EM22TP9X10D	EM22TP9X10E
	Clear	EM22TP0X10A	EM22TP0X10B	EM22TP0X10C	EM22TP0X10D	EM22TP0X10E
	120V AC Transformer Unit, Flush, Illuminated Bezel					
	Red	EM22TP2X11A	EM22TP2X11B	EM22TP2X11C	EM22TP2X11D	EM22TP2X11E
	Green	EM22TP3X11A	EM22TP3X11B	EM22TP3X11C	EM22TP3X11D	EM22TP3X11E
	White	EM22TP5X11A	EM22TP5X11B	EM22TP5X11C	EM22TP5X11D	EM22TP5X11E
	Blue	EM22TP6X11A	EM22TP6X11B	EM22TP6X11C	EM22TP6X11D	EM22TP6X11E
	Amber	EM22TP9X11A	EM22TP9X11B	EM22TP9X11C	EM22TP9X11D	EM22TP9X11E
	Clear	EM22TP0X11A	EM22TP0X11B	EM22TP0X11C	EM22TP0X11D	EM22TP0X11E

Note: Dimensions are listed on Page 2-82.

Note: In order to comply with NFPA 79 and IEC 60204-1 requirements:

The colours black, white or grey shall be used for Push-Push operators which act alternately as START/ON and STOP/OFF pushbuttons. White shall be used for illuminated Push-Push operators.

Push-Push operators shall only be used for functions which can not result in a hazardous condition.

IEC 60204-1 recommends that Push-Push operators acting alternately as START/ON and STOP/OFF pushbuttons be marked with the printed legend N124.

Accessories Pages 2-67 – 2-71
 Enclosures Pages 2-80 – 2-81
 Legend Plates Pages 2-72 – 2-78
 Commande d'étiquettes..... Pages A-1









E22 and EM22 Series, Push-Push Components

Alternate Action (Push-Push) Components

Non-illuminated and Illuminated Push-Push Operators

Note: Will accept a maximum of 2 contact blocks when used with supplied 3-way adapter, 5-way mounting adapters are not to be used.

Table 2-36. Push-Push Operators — UL (NEMA) 3, 3R, 4, 4X, 12, 13

	E22 Series — Plastic Operators		EM22 Series — Metal Operators
	Black Bezel	Chrome Bezel	Chrome Bezel
Flush, Non-illuminated			
			
Colour	Catalogue Number	Catalogue Number	Catalogue Number
Black White Grey	E22PPB1 E22PPB5 E22PPB7	E22PP1 E22PP5 E22PP7	EM22PP1 EM22PP5 EM22PP7
Extended, Non-illuminated			
			
Colour	Catalogue Number	Catalogue Number	Catalogue Number
Black White Grey	E22EPB1 E22EPB5 E22EPB7	E22EP1 E22EP5 E22EP7	EM22EP1 EM22EP5 EM22EP7
Flush, Illuminated			
			
Colour	Catalogue Number	Catalogue Number	Catalogue Number
White Clear Red Green Blue Amber	E22NPB5 E22NPB0 E22NPB2 E22NPB3 E22NPB6 E22NPB9	E22NP5 E22NP0 E22NP2 E22NP3 E22NP6 E22NP9	EM22NP5 EM22NP0 EM22NP2 EM22NP3 EM22NP6 EM22NP9
Flush, Illuminated with Illuminated Bezel			
Colour	Catalogue Number	Catalogue Number	Catalogue Number
White Clear Red Green Blue Amber	— — — — — —	E22TP5 E22TP0 E22TP2 E22TP3 E22TP6 E22TP9	EM22TP5 EM22TP0 EM22TP2 EM22TP3 EM22TP6 EM22TP9

Note: In order to comply with NFPA 79 and IEC 60204-1 requirements:

The colours black, white or grey shall be used for Push-Push operators which act alternately as START/ON and STOP/OFF pushbuttons. White shall be used for illuminated Push-Push operators.

Push-Push operators shall only be used for functions which cannot result in a hazardous condition.

IEC 60204-1 recommends that Push-Push operators acting alternately as START/ON and STOP/OFF pushbuttons be marked with the IEC symbol for Push-Push pushbuttons. To order with legend, add Suffix **N124** to operator Catalogue Number and add \$2.10 to list price. Example: E22PPB1**N124**

Note: Dimensions are listed on **Page 2-82**. For Rear of Panel Extensions, see **Table 2-124** on **Page 2-87**.

Accessories	Pages 2-67 – 2-71
Enclosures	Pages 2-80 – 2-81
Legend Plates	Pages 2-72 – 2-78
Light Units	Pages 2-63 – 2-64
Suffix Codes	Page 2-91
Commande d'étiquettes	Pages A-1

March 2007

E22 and EM22 Series, Push-Push Components

Alternate Action (Push-Push) Components (Continued)**Contact Block Selection/Application**

Non-illuminated Push-Push operators will accept a maximum of 2 contact blocks (singles or duals). 5-way mounting adapters are not suitable with Push-Push operators. Illuminated Push-Push operators will accept a maximum of 2 contact blocks (singles or duals) and one light unit.

Table 2-37. Push-Push Operators

Contact Block Required		Circuit	Circuit Operation ^①	
Suffix Code	Catalogue Number		Push-ON	Push-OFF
B	E22B1	1NC	O	X
A	E22B2	1NO	X	O
W	E22B11	1NO-1NC	X O	O X
V	E22B20	2NO	X X	O O

^① X = Closed Circuit

^② O = Open Circuit

Note: Add Contact Block Suffix Code from tables above to operator Catalogue Number to order as a complete device. Example: E22EP1B = chrome bezel, Black button Push-Push with 1NC contact block.

Accessories	Pages 2-67 – 2-71
Enclosures	Pages 2-80 – 2-81
Legend Plates.....	Pages 2-72 – 2-78
Light Units	Pages 2-63 – 2-64
Suffix Codes	Page 2-91
Commande d'étiquettes.....	Pages A-1

E22 Series, Complete Devices — Maintained Emergency Stop Pushbutton Units

Trigger Action Emergency Stop Pushbutton Units — EN 418 Compliant

The European Machinery Safety Directive EN 418 requires all emergency OFF devices to be self-latching types and to have positive (direct) opening operation. Devices have to be manually reset. Actuators shall be mushroom head type and coloured RED. The background immediately around the device actuator should be coloured YELLOW. See **Page 2-35** for yellow guard.

The new E22 trigger action operators in conjunction with yellow nameplates

and DOA (Direct Opening Action) contact blocks are fully compliant with this safety directive.





Features

- Safety interlock against inadvertent operation
- Stop command and latching occur simultaneously
- Contacts cannot be “teased” open
- Direct Opening Action (DOA) contact blocks
- Resetable by rotation of actuator

Periodic Inspection

Industrial control equipment should be periodically inspected. Eaton recommends inspection of Emergency Stop devices for proper mechanical operation after every 500 hours of elapsed time. See National Electrical Manufacturers Association (NEMA) Standard No. ICS 1.3, *Preventive Maintenance of Industrial Control and Systems Equipment*, for guidelines in setting up a maintenance program.

Table 2-38. Trigger Action Emergency OFF Switch Units — UL (NEMA) 3, 3R, 4, 4X, 12, 13



Action	Colour	Legend/ Engraving	Contact Block Circuit			
			1NC	2NC	1NC-1NO	2NC-1NO
			Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
40 mm Trigger Action Twist-to-Release ①						
	Red	 (Red)	E22LTA2QB	E22LTA2QE	E22LTA2QW	E22LTA2QWB
40 mm Trigger Action Twist-to-Release EMO (Emergency Machine OFF) ②						
	Red	 (White) ③	E22LTA2N123QB	E22LTA2N123QE	E22LTA2N123QW	E22LTA2N123QWB

① Third party certified by DEMKO. For specification drawing, request A70-8530 from the Customer Support Centre — call 1-800-268-3578.

② Third party certified by DEMKO and GS3 to SEMI S2-0200 specifications. For specification drawing, request A70-8508 from the Customer Support Centre — call 1-800-268-3578.

③ EMO (Emergency Machine OFF) marking per SEMI S2 requirement.

Table 2-39. Two-Position Push-Pull Emergency Stop Pushbutton Units — UL (NEMA) 3, 3R, 4, 4X, 12, 13

Action	Colour	Legend/ Engraving	Contact Block Circuit		
			1NC	2NC	1NC-1NO
			Catalogue Number	Catalogue Number	Catalogue Number
40 mm Mushroom					
	Red	None	E22LPB2B	E22LPB2E	E22LPB2C
	Red	 ④	E22LPB2N125B	E22LPB2N125E	E22LPB2N125C

④ IEC Symbol for Emergency Stop.












Direct Opening Action (DOA) for IEC 60947-5-1 (Annex K) and NEMA ICS 5 (Part 6) Compliance

Table 2-40. Mechanical Operating Parameters of Operators with E22CB1 and E22CB11 (NC Contacts Only)

DOA Operating Parameters	Latching Trigger Action E-Stop		2-Position Push-Pull	
	E-Stop + E22CB1	E-Stop + E22CB11	2-Pos. Push-Pull + E22CB1	2-Pos. Push-Pull + E22CB11
Min. Travel to Open Contact — Inches (mm)	0.24 (6.1)	0.24 (6.1)	0.08 (2.1)	0.08 (2.1)
Min. Force to Open Contact — lb (N)	5.00 (22.24)	5.00 (22.24)	0	0
Total Travel — Inches (mm)	0.29 (7.4)	0.29 (7.4)	0.23 (5.8)	0.23 (5.8)

Emergency Stop Components

Table 2-41. Standard Emergency Stop and Emergency OFF Operators — UL (NEMA) 3, 3R, 4, 4X, 12, 13


All Shown with Chrome Bezel	Action	Colour	Button Diameter/ Material	Legend/ Engraving	Plastic — Black Bezel	Plastic — Chrome Bezel
					Catalogue Number	Catalogue Number
Maximum of 2 Contact Blocks (4 Circuits) When Used with Supplied 3-Way Adapter (Unless Otherwise Noted)						
	Maintained Trigger Action Twist-to-Release	Red	40 mm/Plastic		E22LTA2 ①	—
	Maintained Trigger Action Twist-to-Release	Red	40 mm/Plastic	EMO	E22LTA2N123 ①	—
	Momentary ③	Red	40 mm/Plastic		E22LB2	E22L2
			50 mm/Plastic		E22JPB2	E22JP2
			50 mm/Alum.		E22JB2	E22J2
				EMERG. STOP	E22JB2N8	E22J2N8
	Maintained 2-Position Push-Pull ③	Red	40 mm/Plastic		E22LPB2 ①	E22LP2 ①
	Maintained 2-Position Push-Pull ③	Red	50 mm/Plastic		E22JPLB2 ①	E22JPL2 ①
			50 mm/Alum.		E22JLB2 ①	E22JL2 ①
				EMERG. STOP	E22JLB2N8 ①	E22JL2N8 ①
	Maintained 2-Position Push-Pull ③	Red	40 mm/Plastic		E22EDB2 ①	E22ED2 ①
				EMERG. STOP	E22EDB2N8 ①	E22ED2N8 ①
				EMERG. STOP	E22EDB2N796 ①②	E22ED2N796 ①②
	Maintained 2-Position Push-Pull ③	Red	40 mm/Plastic Illuminated		E22GDB2 ①	E22GD2 ①
				EMERG. STOP	E22GDB2N8 ①	E22GD2N8 ①
				EMERG. STOP	E22GDB2N796 ①②	E22GD2N796 ①②
	Maintained Twist-to-Release	Red	40 mm/Plastic	 (White)	E22LLB2	E22LL2
				 EMERGENCY OFF (White)	E22LLB2N886	E22LL2N886
	Maintained — Key Release	Red	40 mm/Plastic		E22GB2	E22G2

① Compliant with EN418 Machinery Safety Directive.

② Yellow field — red letters.

③ Maximum of 3 contact blocks allowable (6 circuits) when optional operator plug is used.

Table 2-42. EN418 Compliant Safety Yellow Guard

	Description	Colour	Catalogue Number
	Mushroom Guard for 40 mm Trigger Action Switch — To be used with E22LTA2 and E22LTA2N123 operators.	Safety Yellow	E22MGTA

Periodic Inspection

Industrial control equipment should be periodically inspected. Eaton recommends inspection of Emergency Stop devices for proper mechanical operation after every 500 hours of elapsed time. See National Electrical Manufacturers Association (NEMA) Standard No. ICS 1.3, *Preventive Maintenance of*
















Industrial Control and Systems Equipment, for guidelines in setting up a maintenance program.

Contact Blocks Page 2-62
 Enclosures Pages 2-80 – 2-81
 5-Way Adapter..... Page 2-70
 Legend Plates Pages 2-72 – 2-78
 Suffix Codes..... Page 2-91
 Commande d'étiquettes..... Pages A-1

E22 and EM22 Series, Twist-to-Release, Push-Pull and Key Release Components

Twist-to-Release, Push-Pull and Key Release Components

Table 2-43. Maintained Contact Mushroom Head Operators, Non-illuminated — UL (NEMA) 3, 3R, 4, 4X, 12, 13

Will Accept Maximum of 2 Contact Blocks (4 Circuits) When Used with Supplied 3-Way Adapter.			E22 Series Plastic Operators			EM22 Series Metal Operators	
			Colour	Black Bezel	Chrome Bezel	Colour	Chrome Bezel
				Catalogue Number	Catalogue Number		Catalogue Number
			Twist-to-Release — 28 mm Diameter Button (Push to Latch — Twist to Release)				
			Black Red Green Yellow Blue	E22MLB1 E22MLB2 E22MLB3 E22MLB4 E22MLB6	E22ML1 E22ML2 E22ML3 E22ML4 E22ML6	Red Black Green Yellow Blue	EM22ML2 EM22ML1 EM22ML3 EM22ML4 EM22ML6
			Twist-to-Release — 40 mm Diameter Button (Push to Latch — Twist to Release)				
			Black Red Green Yellow Blue	E22LLB1 E22LLB2 E22LLB3 E22LLB4 E22LLB6	E22LL1 E22LL2 E22LL3 E22LL4 E22LL6	Red Black Green Yellow Blue	EM22LL2 EM22LL1 EM22LL3 EM22LL4 EM22LL6
			Push-Pull — 40 mm Diameter Button (Push to Latch — Pull to Release)				
			Black Red Green Yellow Blue	E22LPB1 E22LPB2 E22LPB3 E22LPB4 E22LPB6	E22LP1 E22LP2 E22LP3 E22LP4 E22LP6	Red Black Green Yellow White Blue Grey Orange	EM22LP2 EM22LP1 EM22LP3 EM22LP4 EM22LP5 EM22LP6 EM22LP7 EM22LP8
			Push-Pull — 50 mm Diameter Button (Push to Latch — Pull to Release)				
			Black Red Green Yellow Blue Red (Alum)	E22JPLB1 E22JPLB2 E22JPLB3 E22JPLB4 E22JPLB6 E22JLB2 ①	E22JPL1 E22JPL2 E22JPL3 E22JPL4 E22JPL6 E22JL2 ①	Red Black Green Yellow White Blue Grey Orange Red (Alum)	EM22JPL2 EM22JPL1 EM22JPL3 EM22JPL4 EM22JPL5 EM22JPL6 EM22JPL7 EM22JPL8 EM22JL2
			Red (Alum) EMERGENCY STOP				
				E22JLB2N8 ①	E22JL2N8 ①		EM22JL2N8
			Key Release — 40 mm Diameter Button (Push to Latch — Turn Key to Release) ②				
			Black Red Green	E22GB1 E22GB2 E22GB3	E22G1 E22G2 E22G3	Red Black Green	EM22G2 EM22G1 EM22G3

① Anodized aluminum head — not suitable for ultraviolet light applications.

② For legend plates, use oversize plates, Catalogue Numbers E22VA1, VA2 or VA8 listed on Page 2-67.

Note: Dimensions are listed on Page 2-82. For Rear of Panel Extensions, see Table 2-124 on Page 2-87.

Special Locks

All key operated devices listed above are supplied with a standard lock and key — Key Reference Number 92239. For special locks, please refer to your Eaton sales office.