

LDG-S

Enclosures for DIN-rails





General 2

3D View..... 3

Dimensions 4

PCB Dimensions 5

Technical Data..... 7

LDG-S2 Ordering Information 8

LDG-S4 Ordering Information 10

Part Number Index 12



The LDG-S series of enclosures are fully insulated enclosures according to the specifications of the machinery and the automotive industries.

Designed for easy snap-on assembly onto DIN-rails by integrated snap-on clip. These enclosures facilitate economical device assembly with optimal utilization of space. For the termination of the conductors of the cable 2 enclosure versions are available:

- pluggable terminals for easy servicing and exchange (commercial pin headers on the pcb.
 - screw terminals for a fixed termination of the conductors.
- For effective heat dissipation the LDG-S enclosure features a base part with integrated ventilation slots. Closed versions (without ventilation slot) are available upon request.

Technical Features

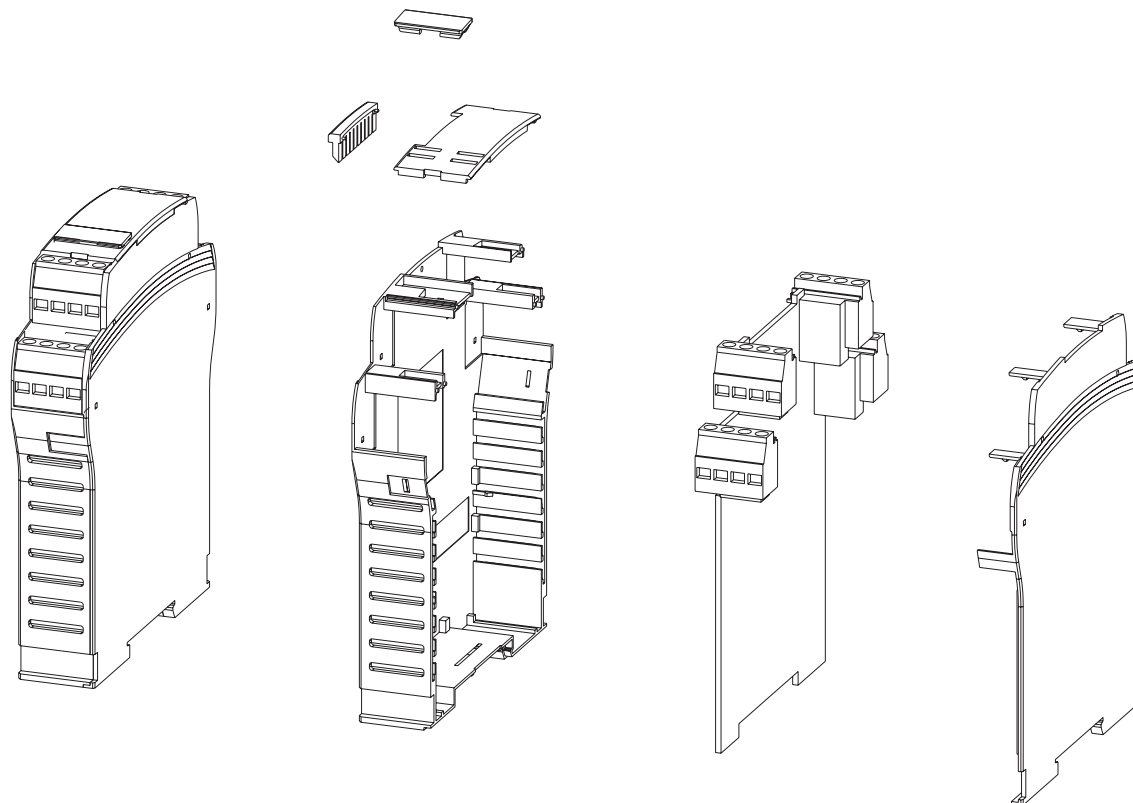
- 2 installation widths: LDG-S2: 22.5 mm
LDG-S4: 45 mm
- Options for the termination of the conductors:
 - LDG-S2: 4 screw terminal blocks with 4 terminals each or
4 pcb headers with 4 pin contacts each for connecting cable connectors with 4 pins
 - LDG-S4: 8 screw terminal blocks with 4 terminals each or
8 pcb headers with 4 pin contacts each for connecting cable connectors with 4 pins
- Easy snap-on assembly on DIN-rails according to DIN EN 50 022
- Easy assembly of the enclosure achieved by snap-in design of the two base part and the top part
- Transparent housing cover with the option for a label
- Customized colors and versions upon request

LDG-S Enclosure for DIN-rails

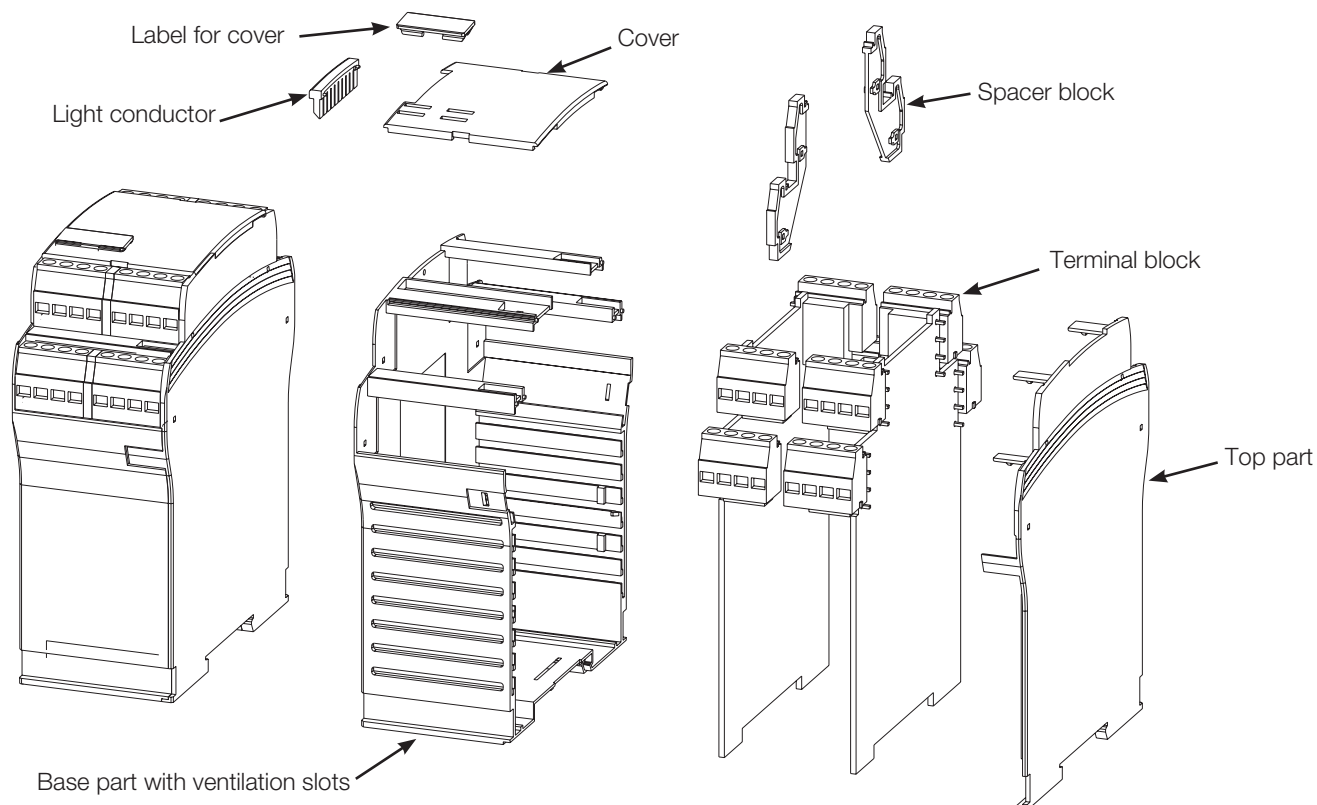
3 D View



LDG-S2: Version with screw termination



LDG-S4: Version with screw termination

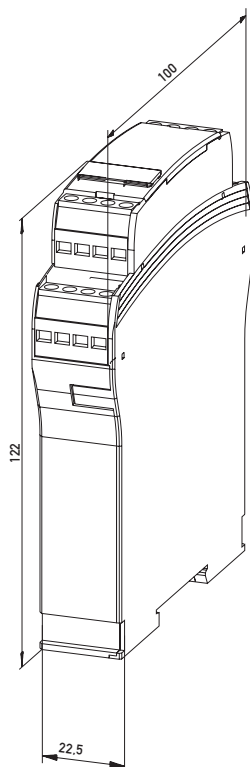


LDG-S Enclosure for DIN-rails

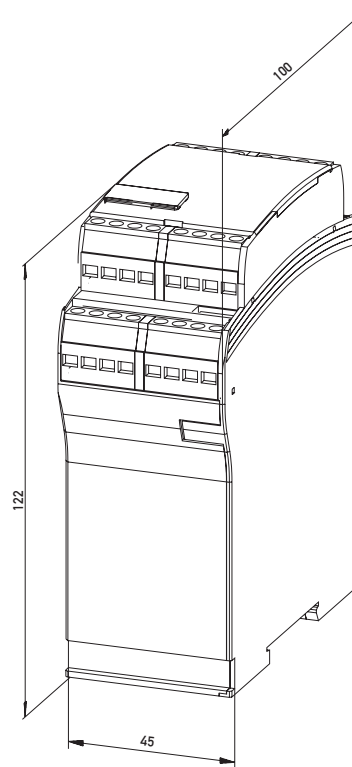
Dimensions



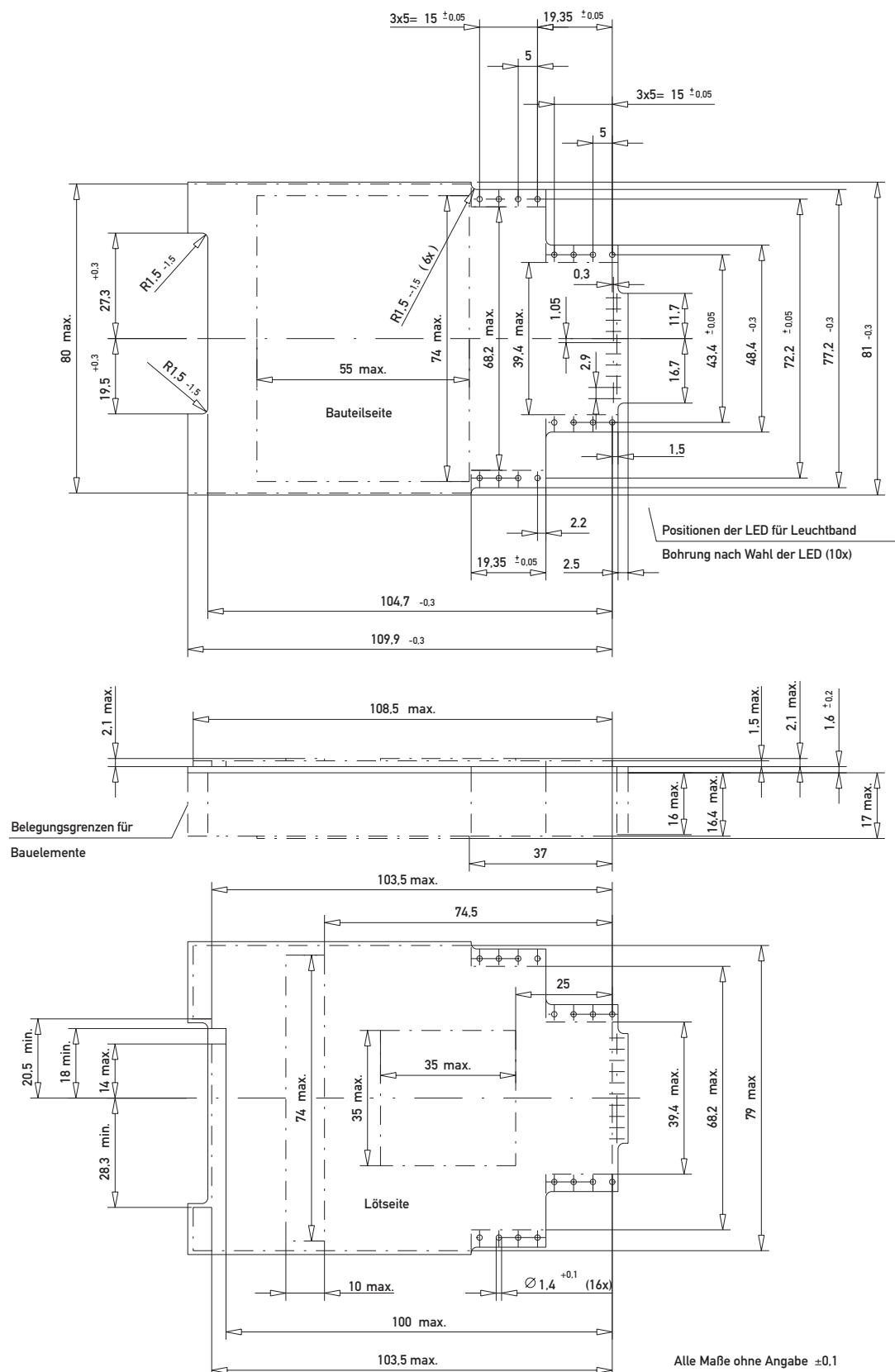
LDG-S2



LDG-S4



LDG-S2



PCB Dimensions



Technical drawing of a PCB layout for a 100W LED strip light, showing three views: Bauteilseite (top), Lötseite (bottom), and a side view (middle). The drawing includes dimensions in mm, tolerances, and labels for components like LEDs, resistors, and capacitors.

Top View (Bauteilseite Leiterplatte 1):

- Overall dimensions: 109.9 ± 0.3 mm (length), 80 max. mm (width).
- LED strip section: 77.2 ± 0.3 mm, 48.4 ± 0.3 mm, 43.4 ± 0.6 mm, 16.7 mm, 11.7 mm, 1.05 mm, 0.3 mm.
- Electronic components section: 19.35 ± 0.05 mm, 2.5 mm, 2.2 mm, 1.5 mm.
- Radius: R1.5 ± 0.1 (6x).
- Text: "Positionen der LED für Leuchtband", "Bohrung nach Wahl der LED (10x)".

Side View:

- Dimensions: 1.5 max. mm, 1.6 ± 0.2 mm, 1.5 max. mm, 1.6 ± 0.2 mm.
- Text: "Leiterplatte 1", "Leiterplatte 3".

Bottom View (Lötseite Leiterplatte 1):

- Overall dimensions: 108.5 max. mm, 103.5 max. mm, 100 max. mm, 103.5 max. mm, 108.5 max. mm.
- LED strip section: 79 max. mm, 68.2 max. mm, 39.4 max. mm, 2.4 max. mm, 1.6 ± 0.2 mm.
- Electronic components section: 20.5 min. mm, 18 min. mm, 14 max. mm, 28.3 min. mm.
- Radius: R1.5 ± 0.1 (6x).
- Text: "Belegungsgrenzen für Bauelemente", "Alle Maße ohne Angabe ± 0.1 ".

Versions	LDG-S2, LDG-S4
Degree of protection	IP 40
Air- and creepage distance acc. IEC 60 664 for terminalblock	3.2 mm
Comparative figure of voltage acc. IEC 112	Terminalblock CTI 250
Insulation material acc. IEC 60 664	Class III
Current rating terminal / pin headers	max. 10 A
Cable diameter terminal /connector cross section	max. 2.5 mm²
Materials	
Base part	Thermoplastic, UL 94 V-0
Top part	Thermoplastic, UL 94 V-0
Cover	Thermoplastic, UL 94 V-1
Transparente Cover	Thermoplastic, UL 94 V-2
Terminal / pin headers	Thermoplastic, UL 94 V-0
Terminal pin Base material / plating	Cu-alloy / tinned
Label for cover	PVC
Temperature range	-40 °C ... +85 °C

Dissipation loss (P_d) at 20°C ambient air temperature (t_a) in enclosures with ventilation slots

	LDG-S2	LDG-S4
 exposed	10 W	10 W
 in-line w/o space	7 W	8 W

Correction factor for upper ambient air temperature ($P_{v+u} = P_{v\ 20^{\circ}\text{C}} \times F$)

t _a	20	30	40	50	60
F	1	0.9	0.8	0.7	0.55

LDG-S Enclosure for DIN-rails

LDG-S2 with Screw Terminal Blocks



Order list for complete enclosure and individual components

Description	Color	Termination	Part Number
Complete kit	black	screw terminal block	223119

Components of the complete kit

Description	Color	Quantity	Part Number
Base part with ventilation slots*	black	1	134209
Top part	black	1	354530
Screw terminal block left, 4pin	black	2	144008
Screw terminal block right, 4pin	black	2	144009
Cover	black	1	144149
Label	white	1	134577

Additional components

Description	Color	Quantity	Part Number
Cover	transparent	1	134575
Cover, LED	black	1	144151
Light conductor	transparent	1	134244

*Base part w/o ventilation slots on request

LDG-S Enclosure for DIN-rails

LDG-S2 with Pluggable Screw Terminal Blocks



Order list for complete enclosure and individual components

Description	Color	Termination	Part Number
Complete kit	black	pluggable screw terminal block	223120

Components of the complete kit

Description	Color	Quantity	Part Number
Base part with ventilation slots*	black	1	134213
Top part	black	1	354530
Pcb header left, 4pin	black	2	144011
Pcb header right, 4pin	black	2	144012
Pluggable screw terminal block, 4pin	black	4	144010
Cover	black	1	144149
Label	white	1	134577

Additional components

Description	Color	Quantity	Part Number
Cover	transparent	1	134575
Cover, LED	black	1	144151
Light conductor	transparent	1	134244

*Base part w/o ventilation slots on request

LDG-S Enclosure for DIN-rails

LDG-S4 with Screw Terminal Blocks



Order list for complete enclosure and individual components

Description	Color	Termination	Part Number
Complete kit	black	screw terminal block	484250

Components of the complete kit

Description	Color	Quantity	Part Number
Base part with ventilation slots*	black	1	354610
Top part	black	1	354530
Screw terminal block left, 4pin	black	4	144008
Screw terminal block right, 4pin	black	4	144009
Spacer block	black	2	144166
Cover	black	1	144152
Label	white	1	134577

Additional components

Description	Color	Quantity	Part Number
Cover	transparent	1	134573
Cover, LED	black	1	144154
Light conductor	transparent	1	134244

*Base part w/o ventilation slots on request

LDG-S Enclosure for DIN-rails

LDG-S4 with Pluggable Screw Terminal Blocks



Order list for complete enclosure and individual components

Description	Color	Termination	Part Number
Complete kit	black	Pluggable screw terminal block	484251

Components of the complete kit

Description	Color	Quantity	Part Number
Base part with ventilation slots*	black	1	354602
Top part	black	1	354530
Pcb header left, 4pin	black	4	144011
Pcb header right, 4pin	black	4	144012
Pluggable screw terminal block, 4pin	black	8	144010
Spacer block	black	2	144168
Cover	black	1	144152
Label	white	1	134577

Additional components

Description	Color	Quantity	Part Number
Cover	transparent	1	134573
Cover, LED	black	1	144154
Light conductor	transparent	1	134244

*Base part w/o ventilation slots on request



Part Number	Page
134209	8
134213	9
134244	8, 9, 10, 11
134573	10, 11
134575	8, 9
134577	8, 9, 10, 11
144008	8, 10
144009	8, 10
144010	9, 11
144011	9, 11
144012	9, 11
144149	8, 9
144151	8, 9
144152	10, 11
144154	10, 11
144166	10
144168	11
223119	8
223120	9
354530	8, 9, 10, 11
354602	11
354610	10
484250	10
484251	11



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