LDG-S

Enclosures for DIN-rails



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LDG-S Enclosure for DIN-rails

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LDG-S Enclosure for DIN-rails

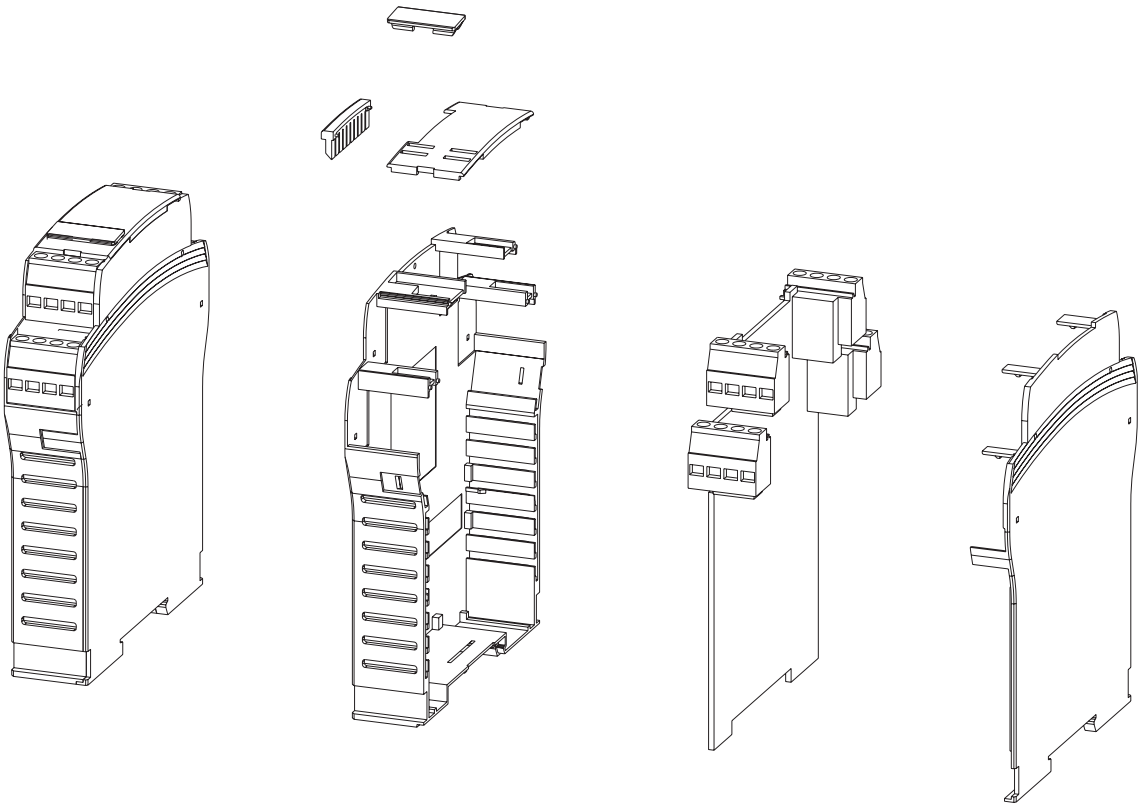


The LDG-S serie of enclosures are fully insulated enclosures according to the specifications of the machinery and the automotive industries.
Designed for easy snap-on assembly onto DIN-rails by integrated snap-on clip. These enclosures facilitate economical device assembly with optimal utilization of space. For the termination of the conductors of the cable 2 enclosure versions are availible:
- 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 availible upon request.

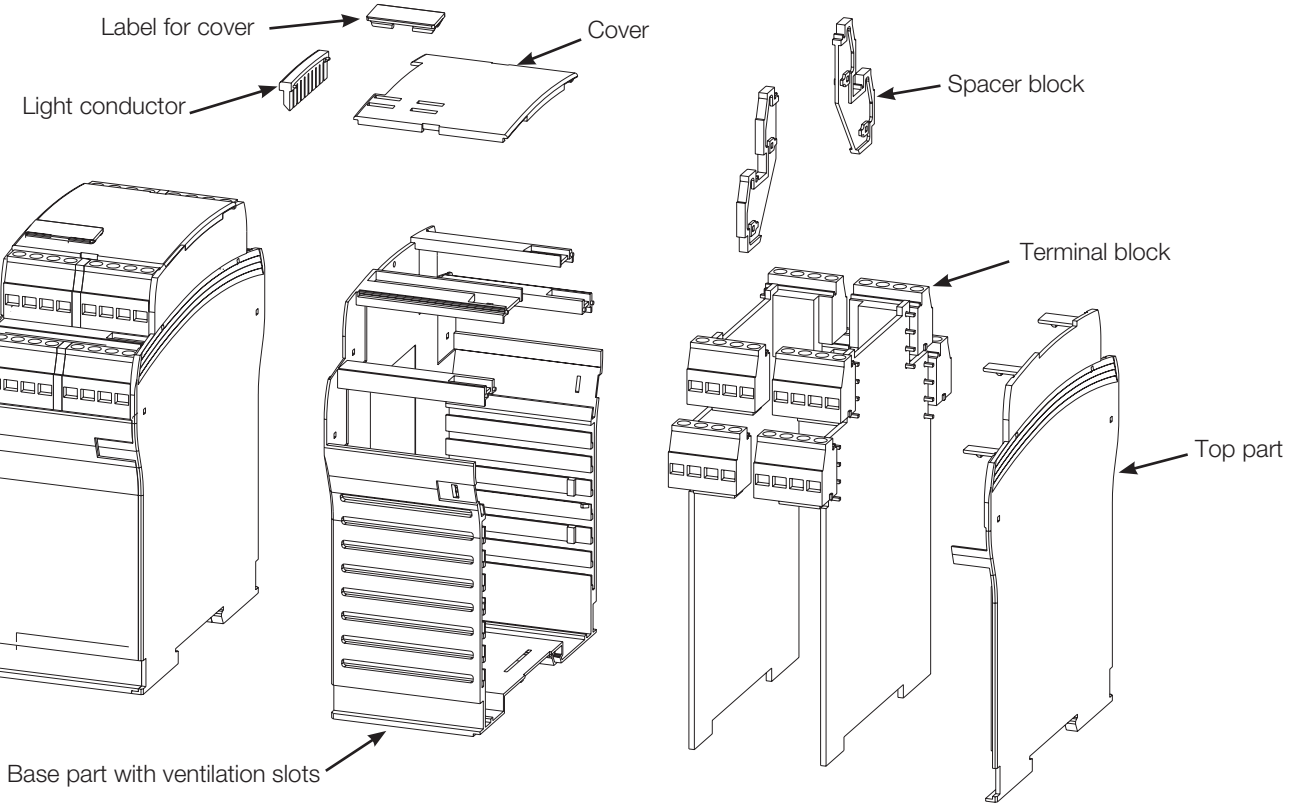
Technical Features

- 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 cnnectors with 4 pins
  LDG-S4: 8 screw terminal blocks with 4 terminals each
  or
  8 pcb headers with 4 pin conacts 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-S2: Version with screw termination



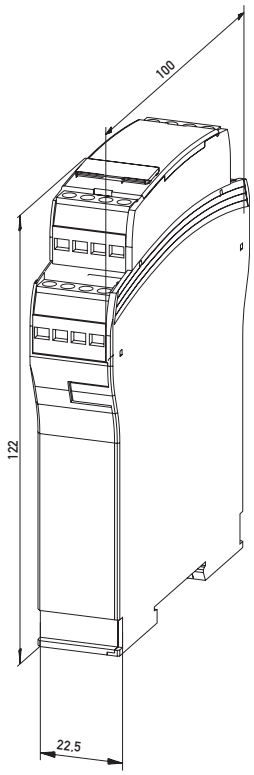
LDG-S4: Version with screw termination



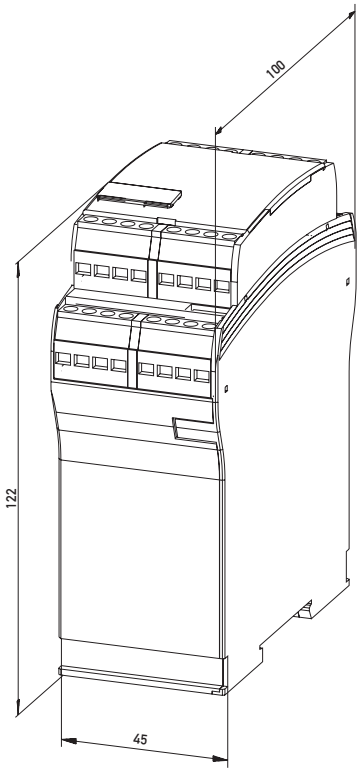
LDG-S Enclosure for DIN-rails

Dimensions

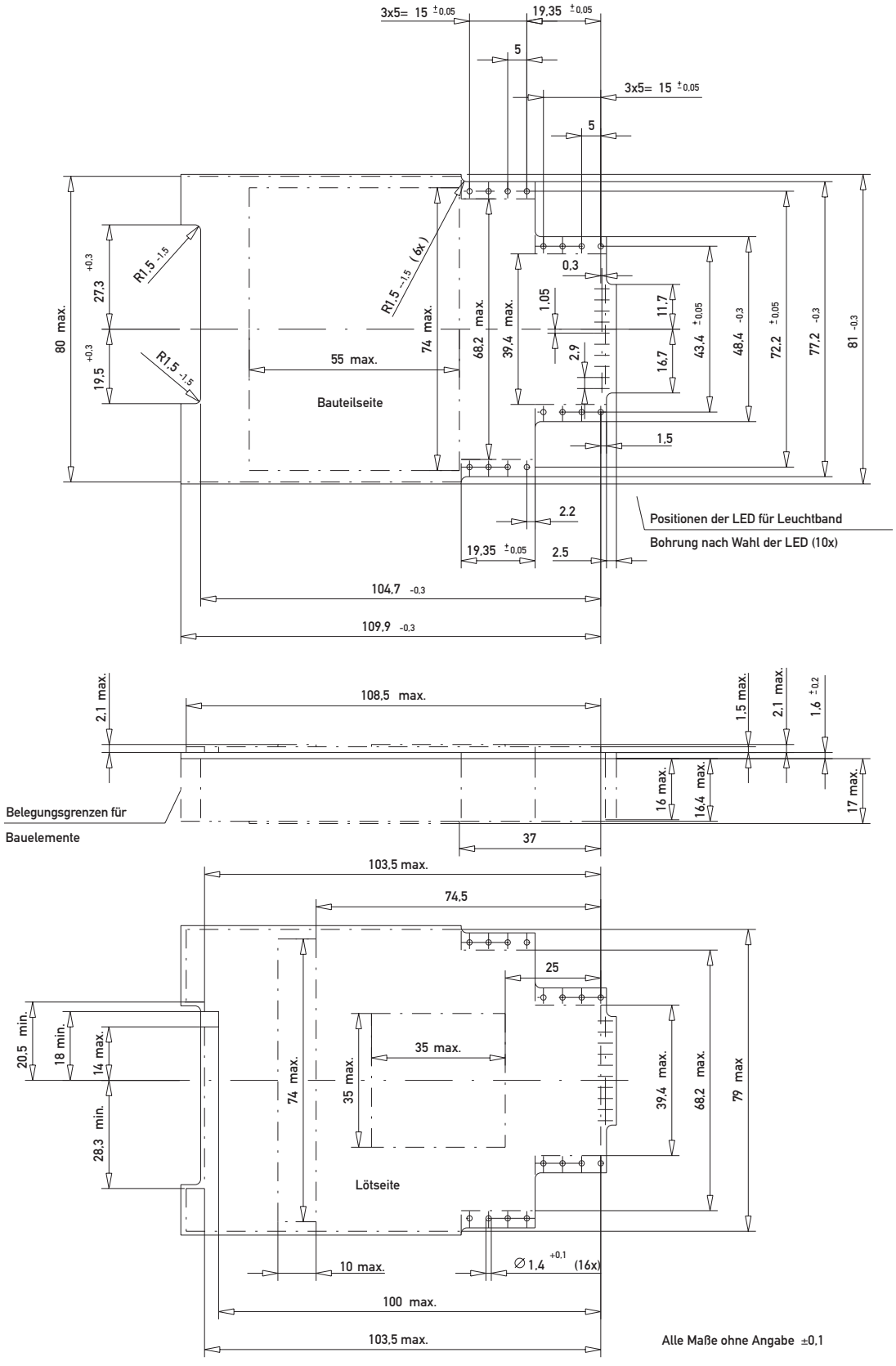
LDG-S2



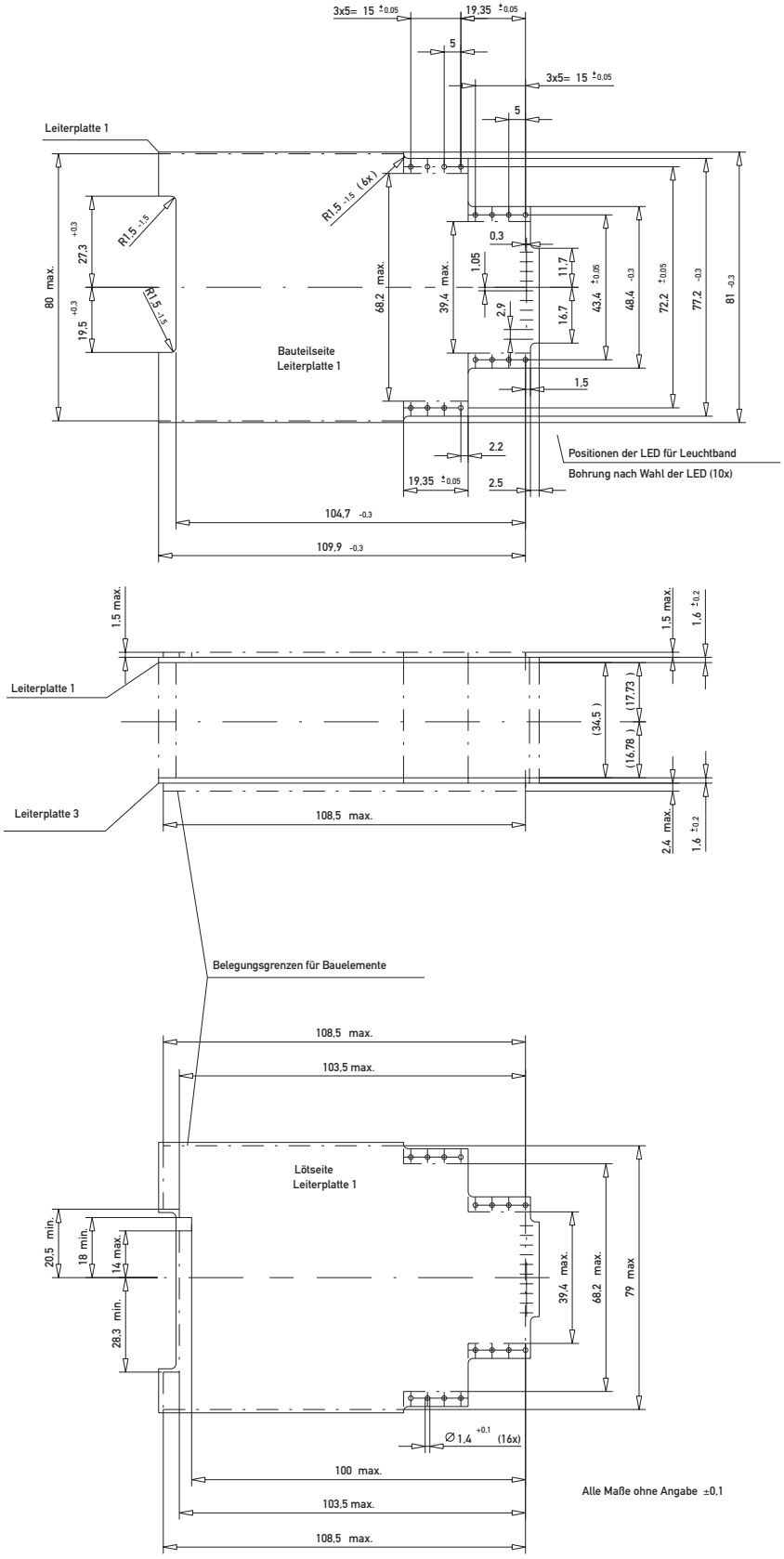
LDG-S4



LDG-S2


3x5= 15 ±0,05
19,35 ±0,05
5
3x5= 15 ±0,05
5
80 max.
27,3 +0,3
19,5 +0,3
R1,5 -1,5
R1,5 -1,5
R1,5 -1,5 (6x)
55 max.
Bauteilseite
74 max.
68,2 max.
39,4 max.
1,05
0,3
2,9
11,7
16,7
43,4 ±0,05
48,4 -0,3
72,2 ±0,05
77,2 -0,3
81 -0,3
1,5
2,2
19,35 ±0,05
2,5
Positionen der LED für Leuchtband
Bohrung nach Wahl der LED (10x)
104,7 -0,3
109,9 -0,3
2,1 max.
108,5 max.
1,5 max.
2,1 max.
1,6 ±0,2
16 max.
16,4 max.
17 max.
Belegungsgrenzen für
Bauelemente
37
103,5 max.
74,5
25
20,5 min.
18 min.
14 max.
28,3 min.
74 max.
35 max.
35 max.
39,4 max.
68,2 max.
79 max
Lötseite
10 max.
∅1,4 +0,1 (16x)
100 max.
103,5 max.
Alle Maße ohne Angabe ±0,1

LDG-S4


3x5= 15 ±0.05
19,35 ±0.05
5
3x5= 15 ±0.05
5
Leiterplatte 1
R1,5 -1,5 (6x)
R1,5 -1,5
R1,5 -1,5
80 max.
27,3 +0,3
19,5 +0,3
68,2 max.
39,4 max.
1,05
0,3
11,7
2,9
16,7
43,4 ±0,05
48,4 -0,3
72,2 ±0,05
77,2 -0,3
81 -0,3
Bauteilseite
Leiterplatte 1
1,5
2,2
19,35 ±0,05
2,5
Positionen der LED für Leuchtband
Bohrung nach Wahl der LED (10x)
104,7 -0,3
109,9 -0,3
1,5 max.
1,5 max.
1,6 ±0,2
Leiterplatte 1
(34,5)
(17,73)
(16,78)
Leiterplatte 3
108,5 max.
2,4 max.
1,6 ±0,2
Belegungsgrenzen für Bauelemente
108,5 max.
103,5 max.
Lötseite
Leiterplatte 1
20,5 min.
18 min.
14 max.
28,3 min.
39,4 max.
68,2 max.
79 max
Ø1,4 +0,1 (16x)
100 max.
103,5 max.
108,5 max.
Alle Maße ohne Angabe ±0,1

LDG-S Enclosure for DIN-rails

Tecnical Data

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 diameterr 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_v) at 20°C ambient air temperature (t_u) 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 ($P_{v+u} = P_{v\ 20°C}$ x F)

t_u	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

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