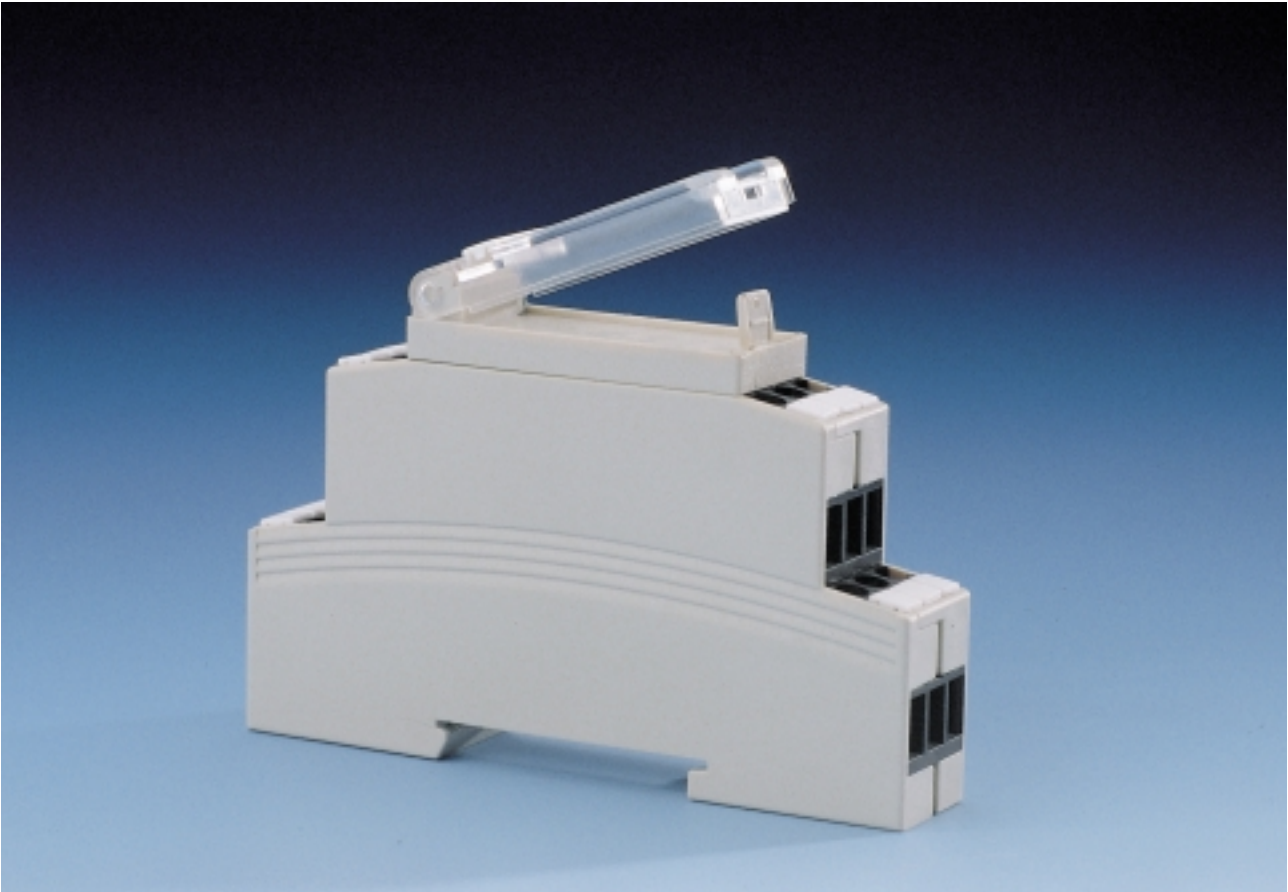


DIN Rail Mount Enclosure IDG-A

IDG-A1: Snap-together design with installed width of $17.5^{+0.5}$ mm



General

The new IDG-A1 DIN rail mount enclosure is ideal for applications requiring a housing for smaller PCBs and minimal DIN rail space loss. The IDG-A1 has sleek lines, making this an attractive packaging medium for applications such as home/building automation.

This enclosure has been designed according to DIN 43 880, providing the dimensions and specifications required for installation component standards. Conforming to VBG 4 and IEC529/DIN VDE 0470-1, the IDG-A1 prevents accidental shock and injury while meeting the requirements of the automation industries. This new housing enables users to incorporate one vertical PCB and a top horizontal PCB or three horizontal PCBs. The top horizontal PCB is ideal for holding signalling devices/indicators and switches. Fully populated, the terminal blocks have a maximum of 12 screw clamp terminals. For applications not requiring all 12 I/O positions or requirements for additional internal space, selective loading may be done, with empty positions being filled with blind plugs.

Main Features

- Installed width of $17.5^{+0.5}$ mm
- Dimensional size per DIN 43 880, component size 1
- Mountable to DIN rails meeting DIN 46 277 and DIN EN 50 022 (35mm)
- Ease of assembly due to snap-together design
- One main PCB (vertical) or up to three horizontal PCBs
- Two terminal blocks (one left, one right), each with two sets of three positions (may be custom-loaded)
- Blind insert may be utilized in-place of terminal blocks for maximum space utilization
- 2 cover versions: grey cover or grey cover frame for clear hinged face plate (for access to switching components)
- Grounding connection via DIN rail pending
- Customer-specific colors and designs available upon request

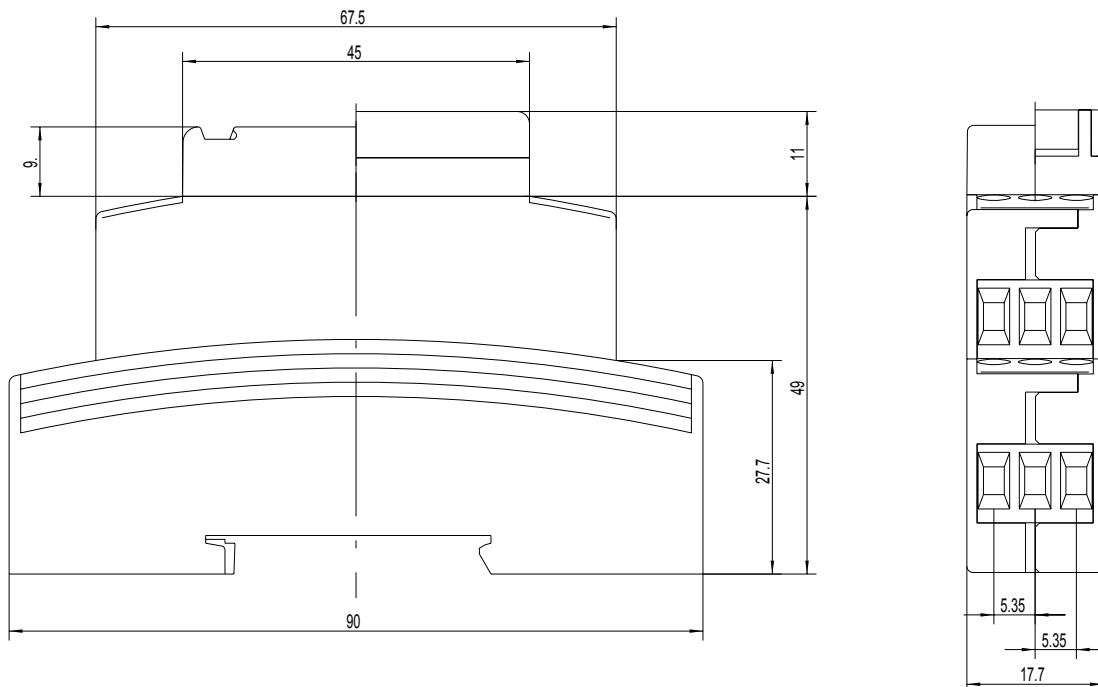
Electrical and Mechanical Characteristics

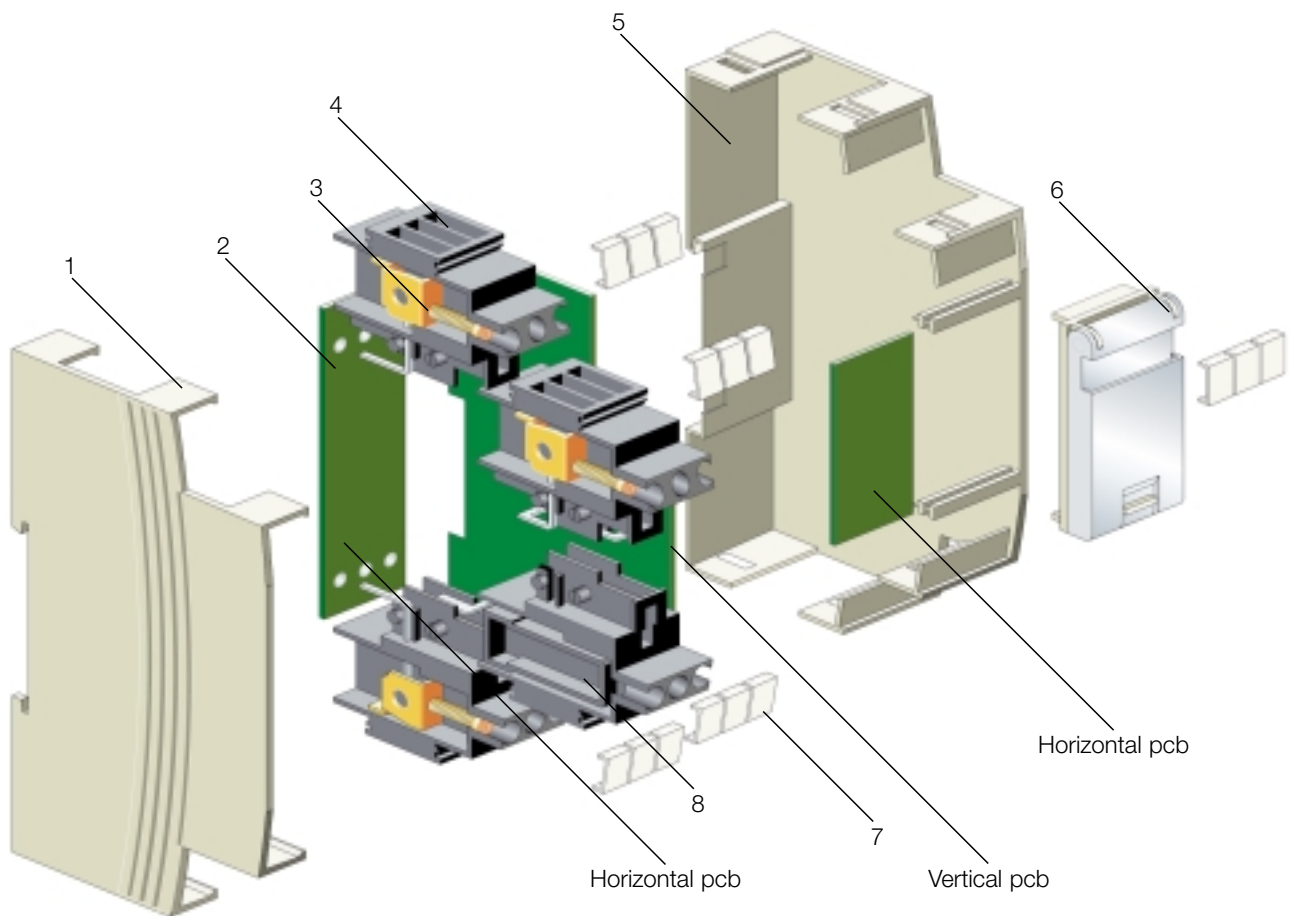
Type	IDG-A1		
Degree of Protection	IP 20		
Air Distance and Creepage per VDE 0110 for Terminal Block	min. 2.5 mm		
Creepage proof acc. to IEC 112 for Terminal Block	CTI 250		
Insulation Material acc. to VDE 0110	III a		
Maximum Current	max. 12 A		
Maximum Wire Size	max. 2.5 mm ² (14 AWG)		
Materials			
Upper Housing Shell	PC 30 % GF	UL 94-V1	
Lower Housing Shell	PC 30 % GF	UL 94-V1	
Blind Terminal Block	PC 30 % GF	UL 94-V1	
Cover	PC 30 % GF	UL 94-V1	
Hinged Face Plate	PC	UL 94-V2	
Terminal Block	PA 46 30 % GF	UL 94-V0	
Blind Plug	PC	UL 94-V2	
Screw Clamp	Steel (zinc plated)		
pcb Termination Pin	CuSn 6 (2 µm Ni +5 µm SnPb plating)		
Nomenclature Marker	PA 66		
Operating Temperature	-40 °C +110 °C (-40 °F ... +230 °F)		
Outer Dimensions: With Cover (W x H x D)	90 x 58 x 17.7 mm (3.54 x 2.28 x 0.70 inches)		
Outer Dimensions: With Hinged Face Plate (W x H x D)	90 x 60 x 17.7 mm (3.54 x 2.36 x 0.70 inches)		

All data only for the housing shell without pcb connection.
Notice the influencing of the air distance and the creepage

because of the wiring.

IDG-A1: Dimensional Drawing

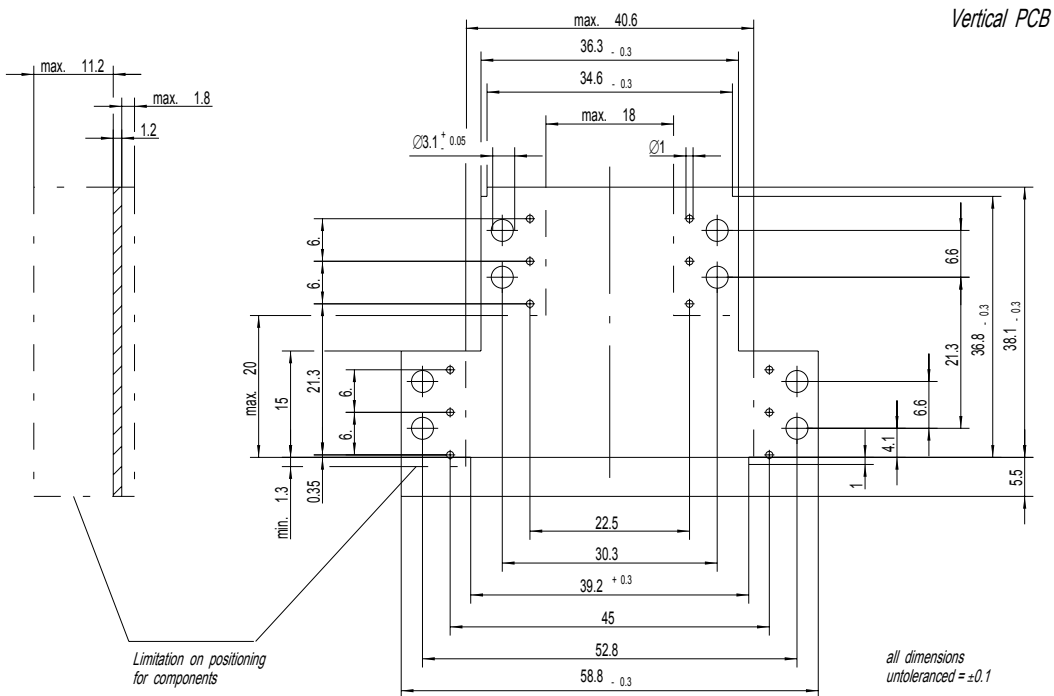
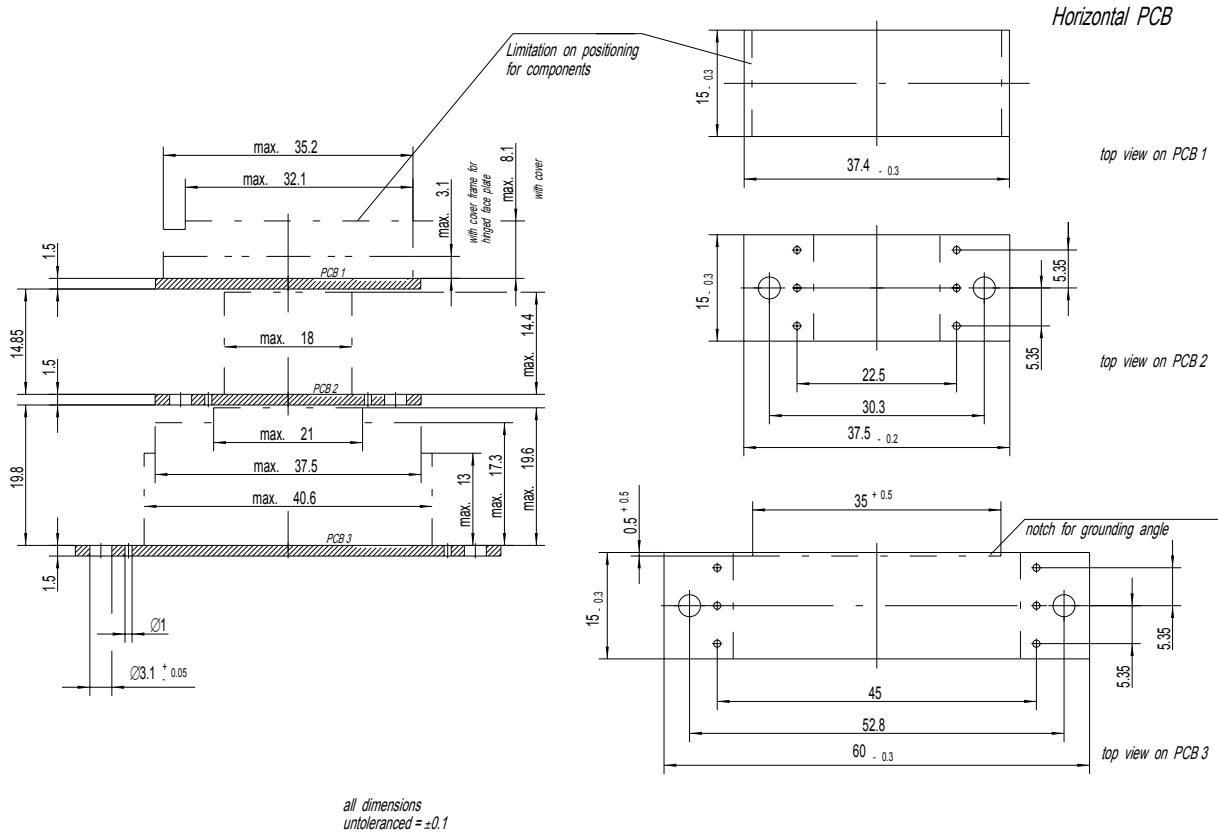




Individual Components

Item	Description	Material
1	Upper Housing Shell	PC 30% GF
2	pcb Termination Pin	CuSn6 (tin plated)
3	Screw Clamp	Steel (zinc plated)
4	Terminal Block	PA 46 30% GF
5	Lower Housing Shell	PC 30% GF
6	Cover with Hinged Face Plate	PC 30% GF/PC
7	Snap-on Nomenclature Marker	PA 66
8	Blind Plug	PC

PCB Dimensions and Installation Notes



Ordering Information

Part	PCB Orientation*	Cover Version	Part No.
Complete Kit	Vertical	Cover	104990
Complete Kit	Vertical	Cover with Hinged Face Plate	104991
Complete Kit	Horizontal	Cover	104992
Complete Kit	Horizontal	Cover with Hinged Face Plate	104993

Note: *pcb Orientation is in relation to DIN rail
The complete kits are packaged individually and consist of the following: an upper housing shell, lower housing shell,

two left terminal blocks, two right terminal blocks (both terminal blocks are populated with 6 pins and screw clamps each) and a cover.

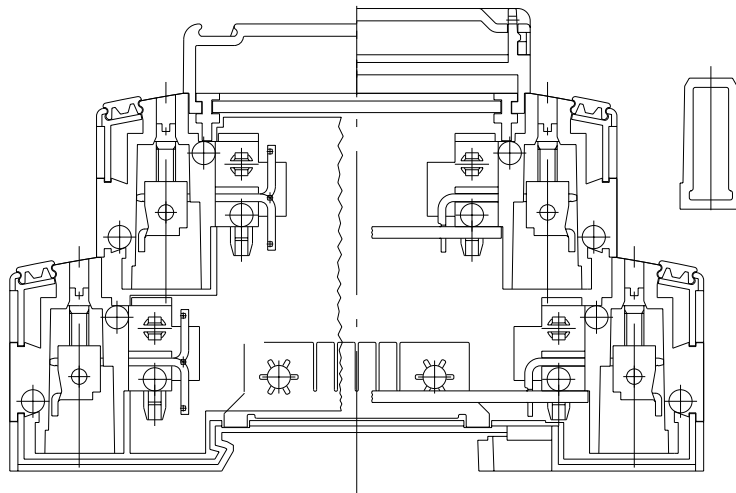
The individual components listed in the table below are ideal for applications with high production volumes.

For complete kits, please refer to the table at the top of the page.

Part	Part No.
Lower Housing Shell	064080
Upper Housing Shell	064081
Left Terminal Block, Assembled	104872
Right Terminal Block, Assembled	104873
Horizontal pcb Terminal Block, Assembled	104874
Snap-on Nomenclature Markers	104413
Blind Terminal Block	064085
Empty Terminal Block Housing	064086
Blind Plug for Terminal Block Housing	414466
Screw Clamp	104150

Part	Part No.
pcb Pin 1, Left/Right	064087
pcb Pin 2, Left	064088
pcb Pin 3, Left	103681
pcb Pin 2, Right	103950
pcb Pin 3, Right	103951
pcb Pin Horizontal pcb	103684
Cover	064082
Cover Frame for Hinged Face Plate	064083
Hinged Face Plate, Transparent	064084

Installation Diagram



Miniature Enclosures LDG-A

The base for all applications Complete family for measuring-/ control technique

Fully-insulated enclosure conforming to the standards of the machine construction and automotive industry with safe-to-touch terminals per VDE 0100 and VBG 4. Facility of inserting max. 2 vertical pcbs as well as 1 horizontal pcb as connection between the 2 vertical pcbs and location for

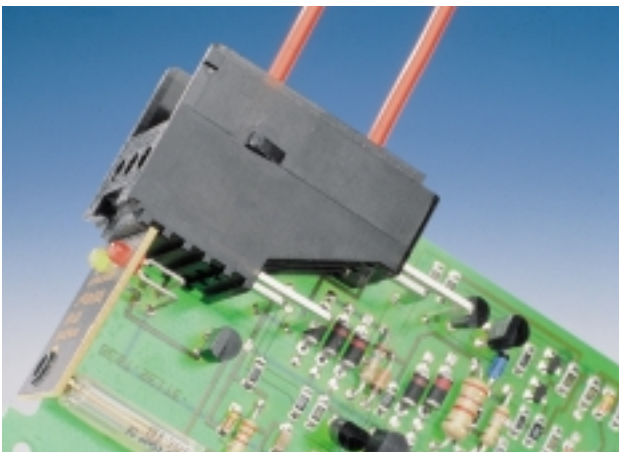
display and control elements. Housing base optionally with or w/o ventilation slots. Housing surface erosion-textured in attractive design. Easy assembly and disassembly for service purposes.

Technical Data

Description	LDG-A-12	LDG-A-14	LDG-A-16	LDG-A30	LDG-A-46	LDG-A-70
Protection	Housing IP40					
	Terminal IP20					
Housing base	Polycarbonate (30% GV), RAL 7032, UL 94 V-1					
Terminal housing, cover and blind plugs	Polycarbonate, UL 94 V-2					
Striking distance / track resistance	≥3mm / CTI 275		≥4mm / CTI 275			
creepage / track resistance	≥3,2mm / CTI 275		≥5mm / CTI 275			
Material	sheet steel, tinned					
Terminals Wire cross section	max. 2,5 mm ²		max. 4mm ²			
Rate current	max. 16A		max. 20A			
Terminal pins	Tin bronze 2µm initial Ni plating 5µm tin plating		2µm Ni		brass 5µm Sn	
Temperature range	-40° C ... +110° C					
Overall dimensions L x W x H	75 x 22.5 x 98.5 mm 75 x 22.5 x 110 mm	75 x 45 x 110 mm	75 x 55 x 110 mm	75 x 99.7 x 110 mm	75 x 150 x 110 mm	75 x 225 x 110 mm

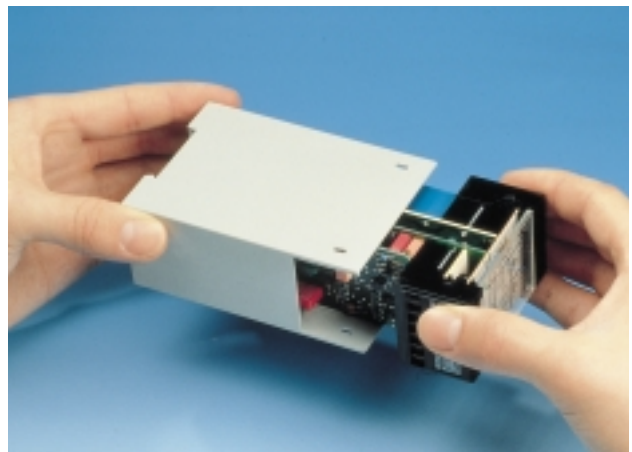
Just snap them on

LDG enclosures have a snap-on fixing for standard rails per DIN 46277 and DIN EN 50022.



Rationalized connection technique

Easy connection from the connection cable via the terminal housing to the pcb.



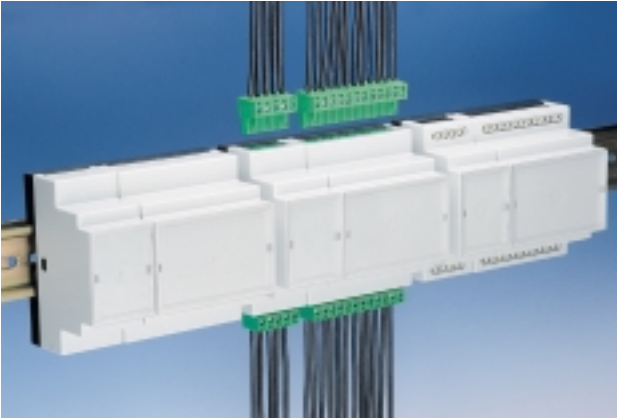
Fast component-mounting and manufacturing

The pcb assembled with components and the terminal housing is being soldered completely in one working process.

Further enclosures for secure packaging for your electronics

DIN Rail Mount Enclosures IDG-B2 and IDG-B4

Width 35.0 mm (max. 10 clamps) and width 70.0 mm (max. 24 clamps)



General

- 2 installation widths: IDG-B2: 35 mm, IDG-B4: 70 mm
- Dimensional size per DIN 43 880, component size 1
- Ease of assembly to DIN rails per DIN 46 277 and DIN EN 50 022
- Various termination options:
 - 5.0 / 5.08 mm terminal blocks
 - 5.0 / 5.08 mm pluggable terminal blocks
 - choice of connector on front cover
- 2 daughter boards each pluggable either vertically or horizontally; safe guidance in guiding slots.
- Transparent cover protects displays and control devices
- DIN rail clip pre-assembled on housing base
- Customer-specific colors and design on request.

LDG-D series

Enclosure series available in 3 different dimensional sizes
Wire termination via Faston connector or screw terminal



LDG-M4

Waterproof housing for fluid technique
Degree of protection IP 67





Our Products:

Two-Part connectors to DIN 41 612 / IEC 603-2 and VG 95 324
Press-fit connectors
SMT connectors
Miniature connectors with 1.27 mm pitch, Series SMC
ERmet, 2.0 mm interconnection system
CompactPCI, Connectors and Backpanels
Fibre optic cable connectors
D-Sub Cable connector housings with EMI and ESD protection
D-Sub Connectors, Series TMC
ERbic, Bus Interface Connector
ERNIPRESS systems including PC Boards to customer's specifications
Complete interfacing system for all connectors
Modular connector housing system for 6, 8, 14, 30, 64, and 96 pins
LDG / IDG series of DIN rail mountable miniature enclosures
Insulation displacement connectors for 10-96 pins
Pin connectors, 1-100 pins

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