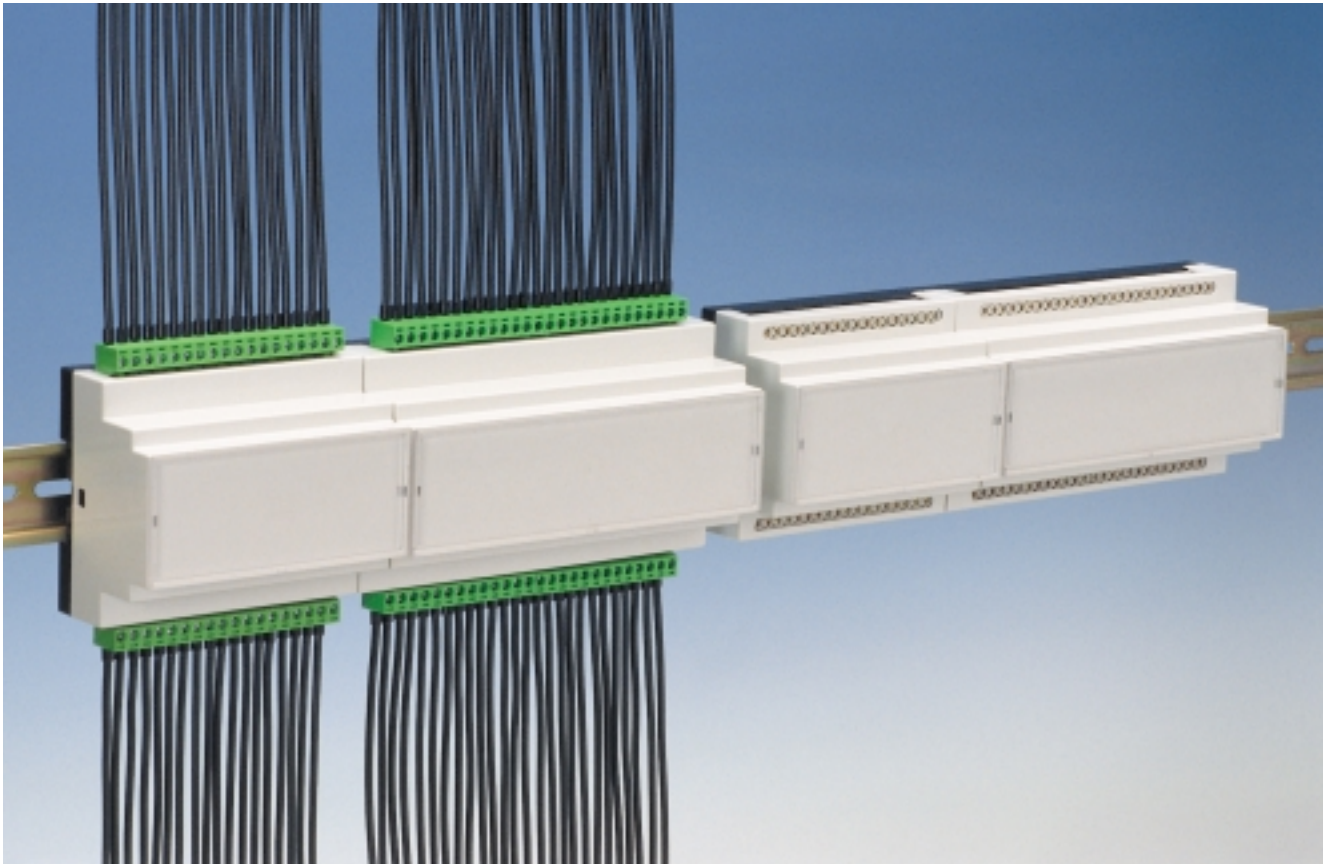# DIN Enclosures IDG‑B6 and IDG‑B9

Installation width 105 mm and 157 mm and easy snap in‑assembly on DIN‑rails

General

The new DIN enclosures IDG‑B6 and IDG‑B9 are fullv insulated and fulfill the requirements of the machinery and car industry
The enclosures have the installation width of 105 mm for the IDG‑B6 and 157 mm for the IDG‑B9.
They are designed for easy snap‑in assembly on DIN‑rails.
Three different versions of the housing cover allow customer specific solutions. There can be used commercial terminals from different suppliers or for mateable solutions with terminal plugs the according PCB headers from different suppliers with the according terminal plug headers.For solutions with connectors or terminals on the front side there is a fully closed version available.
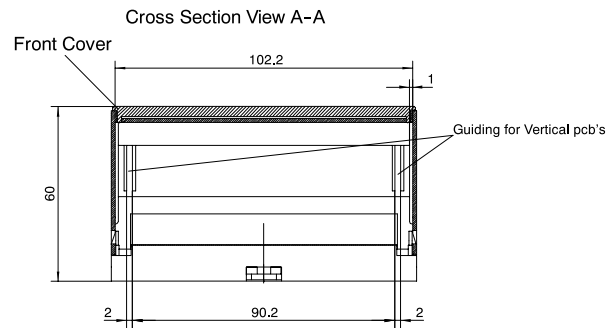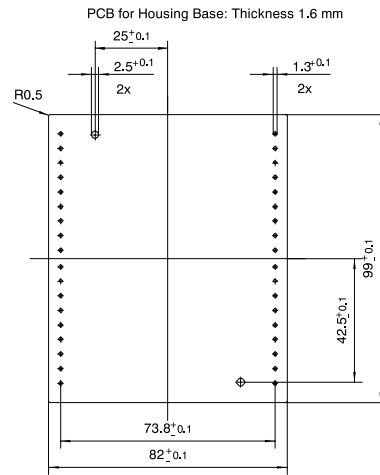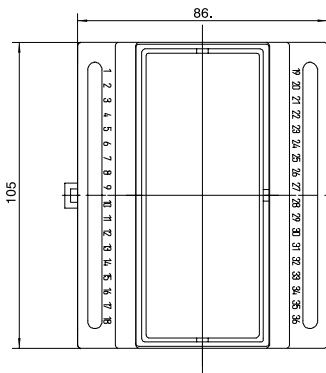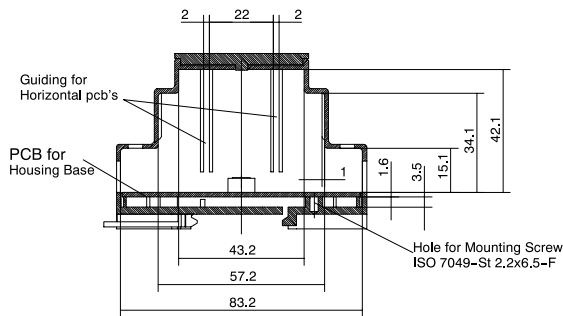The transparent front cover protects displays, Potentiometers or other contol devices on the front side against disadjustment or damages.

Main features

- 2 installation widths:
    IDG‑B6:105.0 mm, max. 36 terminals
    IDG‑B9: 157.0 mm, max. 52 terminals
- Overall dimensions per DIN 43 880, size 1
- Mountable to DIN rails
  per DIN 46 277 und DIN EN 50 022
- Various termination options
    5.0/5.08 mm terminal blocks
    5.0/5.08 mm pluggable terminal block
    Choice of connector on front cover
- Transparent front cover protects displays and control devices
- DIN rail clip pre‑assemled on housing base
- Choice of colors and custom design available upon request (pending min. volume)
- 2 smaller installation widths are also available:
    IDG‑B2: 35 mm
    IDG‑B4: 70 mm

IDG-B6: Dimensional drawing and piece parts   PC Board dimensions

PCB for Housing Base: Thickness 1.6 mm

$25^{+0.1}$

$2.5^{+0.1}$
2x

$1.3^{+0.1}$
2x

R0.5

$99^{-0.1}$

$42.5^{+0.1}$

$73.8^{+0.1}$

$82^{+0.1}$

Cross Section View A-A

Front Cover

102.2

1

Guiding for Vertical pcb's

60

2

90.2

2
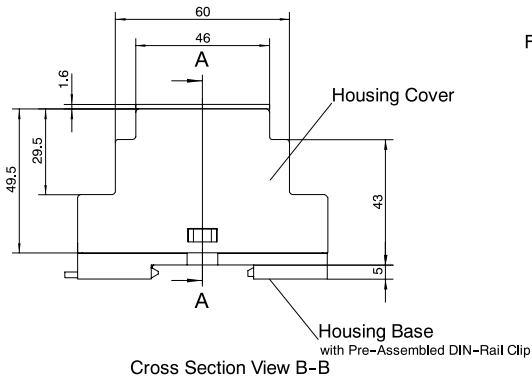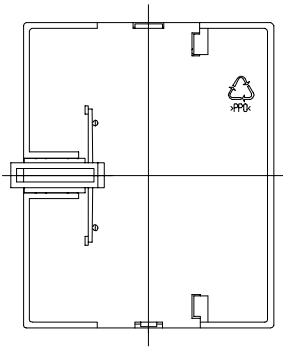
Choice of Vertical or
Horizontal pcb's

Vertical pcb: Thickness 1.6 mm

$56.8_{-0.3}$

$42.8_{-0.3}$

$41.6_{-0.3}$

$33.6_{-0.3}$

Horizontal pcb: Thickness 1.6 mm

$101.8_{-0.3}$

$41.6_{-0.3}$

60

46

A

1.6

29.5

49.5

43

5

Housing Cover

Housing Base
with Pre-Assembled DIN-Rail Clip

A

Cross Section View B-B

2   22   2

Guiding for
Horizontal pcb's

PCB for
Housing Base

34.1

42.1

1

1.6

3.5

15.1

Hole for Mounting Screw
ISO 7049-St 2.2x6.5-F

43.2

57.2

83.2

86.

105

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IDG-B9: Dimensional drawing and piece parts   PC Board dimensions

PCB for Housing Base: Thickness 1.6 mm

$25^{+0.1}$
$2.5^{+0.1}$ 2x
$1.3^{+0.1}$ 2x
R0.5

$151^{+0.1}$
$68.5^{+0.1}$
$73.8^{+0.1}$
$82^{+0.1}$

60
46
A
1.6
49.5
29.5
43
5

Housing Cover

Front Cover

Cross Section View A–A

154.2
60
Guiding for Vertical pcb's
2   142.2   2

A
Cross Section View B–B

Housing Base
with Pre-Assembled DIN-Rail-Clip

Guiding for Horizontal pcb's
PCB for
Housing Base

2   22   2
34.1
42.1
1
1.6
3.5
15.1
43.2
57.2
83.2
Hole for Mounting Screw
ISO 7049-ST 2.2x6.5-F

Choice of
Horizontal or Vertical pcb's

Vertical pcb: Thickness 1.6 mm

$56.8_{0.3}$
$42.8_{0.3}$
$41.6_{0.3}$
$33.6_{0.3}$

Horizontal pcb: Thickness 1.6 mm

$153.8_{0.3}$
$41.6_{0.3}$

B   B
157
86.

Technical data

Values	IDG-B6	IDG-B9
Degree of protection	IP 20	IP 20
Temperature range	-40° -100°C	-40° -100°C
Number of terminals pitch 5.0/5.08	36	24
Pins on PCB header pitch 5.0/5.08	2 x 18	24
Overall dimensions (B x H x T) in mm	105 x 86 x 49	157 x 86 x 49
Assembly screws for PC Board	M 2.2 x 6.5 DIN 7981 F	M 2.2 x 6.5 DIN 7981 F

Materials	IDG-B6	IDG-B9
Housing base material color	PPO UL 94-V1 black	PPO UL 94-V1 black
Housing cover material color	PC UL 94-V1 grey	PC UL 94-V1 grey
Front cover material color	PC transparent	PC transparent

Ordering information IDG-B6

Description	Order No.
Housing base with preassembled clip	104 404
Housing cover for terminals	104 405
Housing cover for PCB headers	104 406

Description	Order No.
Housing cover closed	104 407
Front cover transparent	104 402
Mounting Screw	043 757

Ordering information IDG-B9

Description	Order No
Housing base with preassembled clip	104 396
Housing cover for terminals	104 397
Housing cover for PCB headers	104 398

Description	Order No.
Housing cover closed	104 399
Front cover transparent	104 394
Mounting Screw	043 757

Termination options for IDG-B6 and IDG-B9

Terminals with the pitch 5.0 mm / 5.08 mm

This enclosure version is designed for the use of commercial terminals from Phoenix, PTR, Wago, Weidmüller and other suppliers.
The separate wires can be terminated or disconnected to the closed housing due to a oval cut-out for the screws of the terminals.
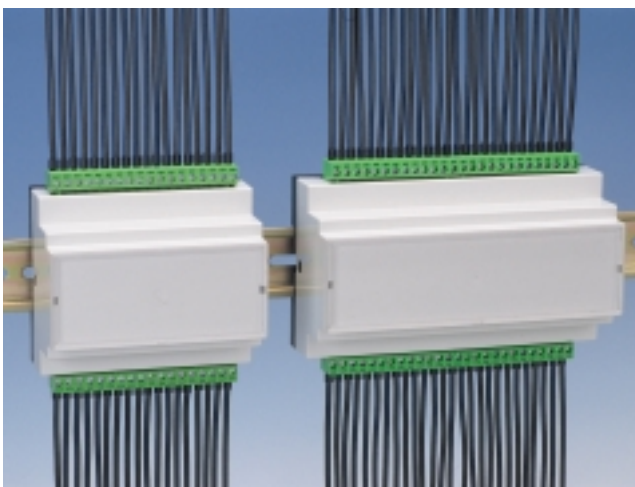
The maximum number of terminals:
IDG-B6: 36 terminals
IDG-B9: 52 terminals

Cover - Typ	Order No.
IDG-B6	104 405
IDG-B9	104 397

Pluggable terminals with the pitch 5.0 mm / 5.08 mm

This enclosure version has been designed for the use of pluggable terminals. It allows the use of commercial pluggable terminals from Phoenix, PTR, Weidmüller and other suppliers. The pluggable terminals reduce failures due to wrong termination of wires at installation or on servicing.
The maximum number of contacts for the pluggable terminal:
IDG-B6: 2 x 18
IDG-B9: 4 x 13

Cover - Typ	Order No.
IDG-B6	104 406
IDG-B9	104 398

Closed cover for frontside connector or other options

For a frontside mating connector, e. g. a D-SUB, the closed version has been developped.

Frontside cut-outs for control devices can be put in according to the customer specification.

Cover - Typ	Order No.
IDG-B6	104 407
IDG-B9	104 399

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)
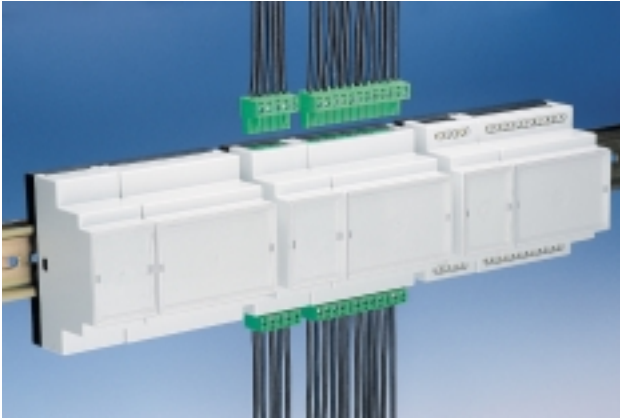
General
- 2 installation widths: IDG-B2: 35 mm, IDG-B4: 70 mm
- Dimensional size per DIN 43 880, component size 1
- Ease of assembly to DIN rails per DIN 46 277 and DIN EN 50 022
- Various termination options:
  5.0 / 5.08 mm terminal blocks
  5.0 / 5.08 mm pluggable terminal blocks
  choice of connector 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

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 mm²	max. 4mm²				
	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.
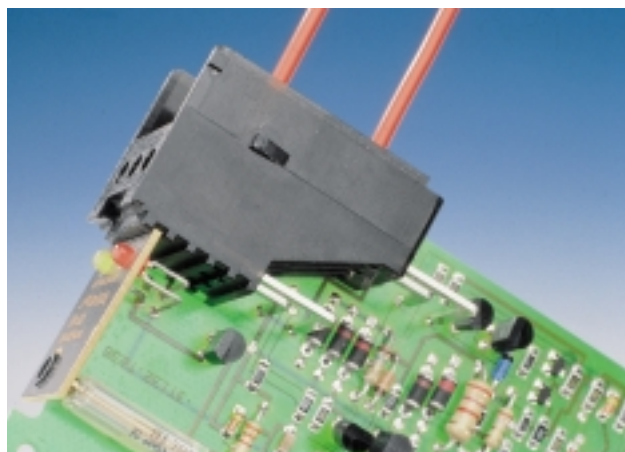
Rationalized connection technique
Easy connection from the connection cable via the terminal housing to the pcb.
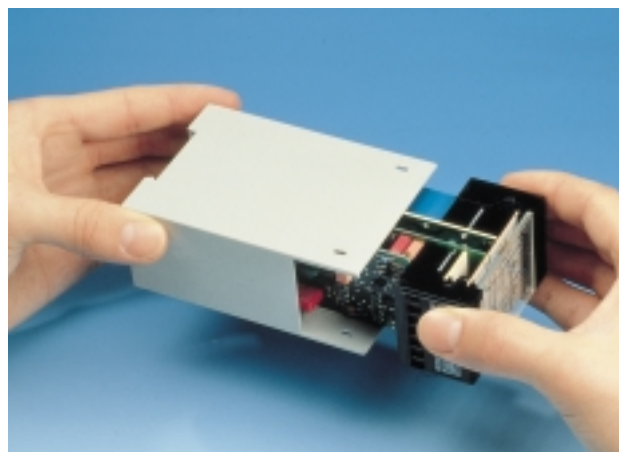
Fast component-mounting and manufacturing
The pcb assembled with components and the terminal housing is being soldered completely in one working process.

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Our Products:

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SMT connectors
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ERmet, 2.0 mm H.M. Connector System
CompactPCI, Connectors and Backpanels
Fibre optic cable connectors
D-Sub Cable connector housings with EMI and ESD protection
D-Sub Connectors, TMC series
ERbic, Bus Interface Connector Systems
ERNIPRESS Systems including PC Boards acc. to customer specification
Complete interfacing system for all connectors
Modular Connector Housing System for 6, 8, 14, 30, 64, and 96 pins
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