

Models

LDG-A-12 ... max. 12 connections LDG-A-14 ... max. 14 connections LDG-A-16 ... max. 16 connections LDG-A-30 ... max. 30 connections

General

The LDG-A series of miniature housings are fully-insulated housings to the specifications of the machinery and automobile industries, with terminals protected against accidental contact in accordance with VDE 0100 Part 750, VDE 0160 Part 100 and VBG 4.

Designed to be particularly easy to install, these housings facilitate extremely rational equipment assembly with optimal utilization of space.

 Connections between the circuit boards and the terminals by means of solderable circuit-board connecting pins, so that no wiring connections are needed.

- The connecting pins are suitable for automatic soldering processes.
- Blind plugs close off any unused terminal ducts.
- The flat cover is easily removed and can be readily drilled or otherwise adapted to requirements.
- Captive, self-locking terminal screws that are highly resistant to loosening through vibration. Large wiring entry channels and guidance for screwdrivers.
- Equippment can be completely assembled before being built into the housing.
- Structured surface and attractive design.
- Easy to assemble and simple to dismantle should servicing be necessary.
- \bullet Creepage and air distances to VDE 0110 Group C, 380 $V_{\mbox{\footnotesize eff}}$

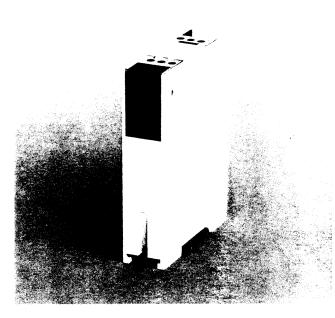
Technical Data

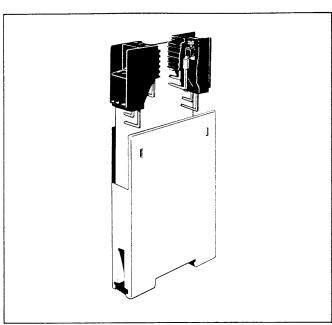
Description		LDG-A-12	LDG-A-14	LDG-A-16	LDG-A-30	
Protection		Housing IP 40 Terminals IP 20				
Housing base		Polycarbonate (30% GFR), RAL 7032, UL 94 V-1				
Terminal housing, cover and blind plugs		Polycarbonate, UL 94 V-2				
	Material	sheet steel, tinned				
Terminals	Wire cross section	max. 2,5 mm ² max. 4 mm ²				
	Rated current	max. 16 A max. 20 A				
Terminal pins		Tin bronze 2 μm initial nickel plating 5 μm tin plating				
Temperature range		-40° C + 110° C				
Overall dimensions		L 75 × W 22,5 × H 100 mm	L 75 × B 45 × H 110 mm	L 75 × W 55 × H 110 mm	L 75 × W 99,7 × H 110 m	



for max. 12 connections







LDG-A-12 housings are capable of accomodating one lengthwise circuit board and one crosswise circuit board.

The two assymetrical forminal housings that can be screwed to the circuit boar there each capable of accomodating up to six terminal pins and terminals.

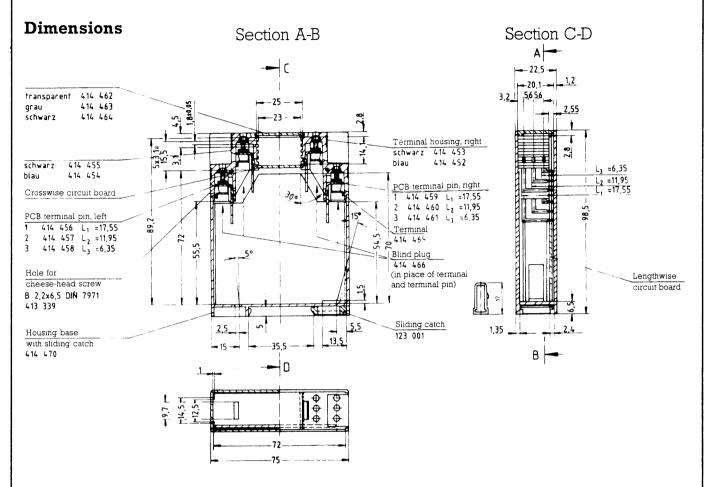
Only as many terminal pins and terminals as are required need be fitted.

The LDG-A-12 is provided with a snap fastener for fitting to DIN 46277 and DIN EN 50022 assembly rails.

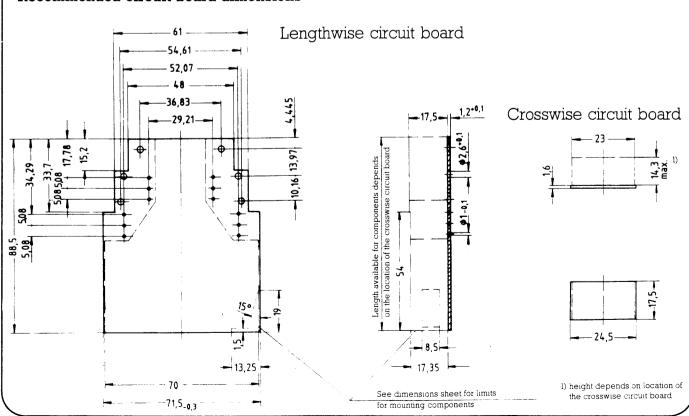
Description	Execution	Colour	Order No.
Housing-base		light grey	414470
Housing cover Housing cover		transparent light grey	414 462 414 463
Terminal housing Terminal housing	right left	dark grey dark grey	414 453 414 455
PCB terminal pin	right 1 right 2 right 3 left 1 left 2 left 3		414 459 414 460 414 461 414 456 414 457 414 458
Terminal, unassembled			414469
Blind plug		dark grey	414466



LDG-A-12



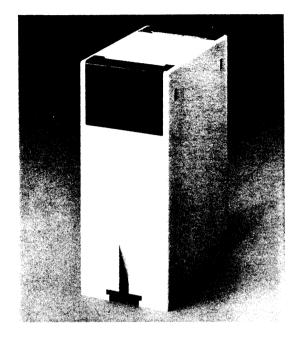
Recommended circuit board dimensions

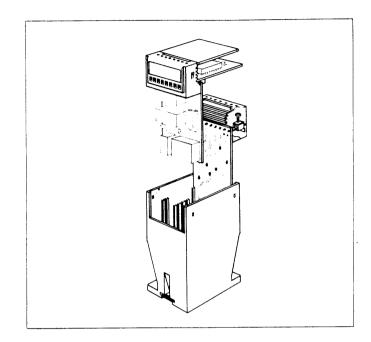




for max. 14 connections







LDG-A-14 housings are capable of accomodating up to two lengthwise circuit boards in addition to one top circuit board as a crosswise connection and to accomodate any actuating and indicating elements.

The two differently sized terminal housings can be fitted with as many terminal pins and terminals as are required.

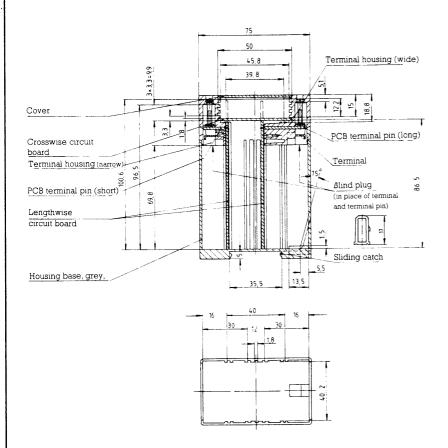
The narrower terminal housing is fitted with shorter terminal pins and the wider housing with longer terminal pins. The LDG-A-14 is provided with a snap fastener for fitting to the assembly rails meeting the DIN 46277 and DIN EN 50022 or a screw fastening via a seperate adapter-plate.

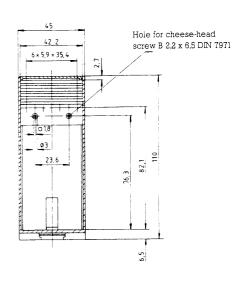
Description	Execution	Colour	Order No.
Housing base		light grey	423 280
Housing cover Housing cover Housing cover		light grey transparent dark grey	423 273 423 272 423 274
Terminal housing Terminal housing Terminal housing Terminal housing	narrow narrow wide wide	dark grey blue dark grey blue	423 275 423 276 423 277 423 278
PCB terminal pin PCB terminal pin	short long		113 024 113 025
Terminal, unassembled			103 008
Blind plug		dark grey	103 006
Adapter plate for screw fastening			424 140



LDG-A-14

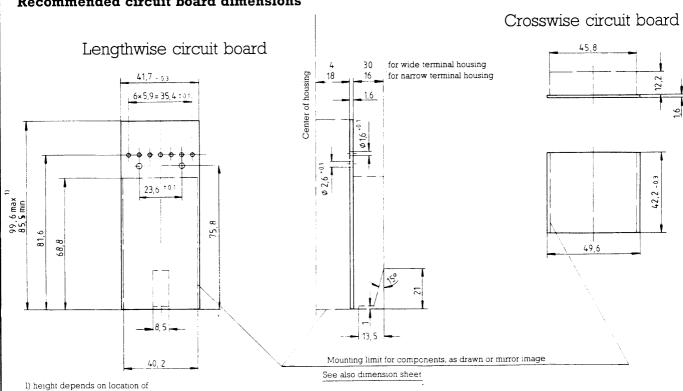
Dimensions





Recommended circuit board dimensions

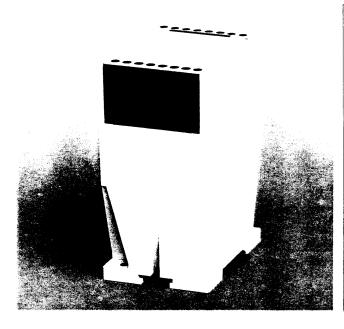
the crosswise circuit board

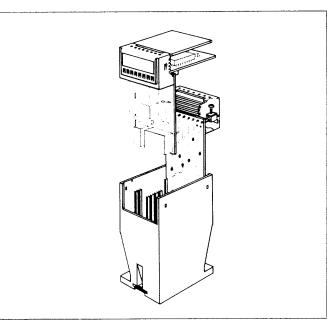




for max. 16 connections

LDG-A-16





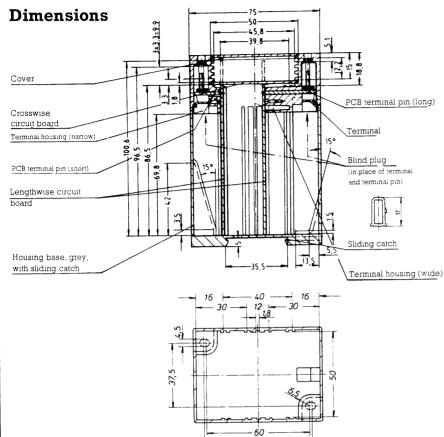
LDG-A-16 housings are capable of accomodating up to two lengthwise circuit boards in addition to one top circuit board as a crosswise connection and to accomodate any actuating and indicating elements.

The two differently sized terminal housings can be fitted with as many terminal pins and terminals as are required.

The narrower terminal housing is fitted with shorter terminal pins and the wider housing with longer terminal pins. The housings can be mounted either by means of screws passed through the two holes to DIN 46 121 and DIN 43 660 or by a snap fastener for fitting to DIN 46 277 and DIN EN 50 022 assembly rails.

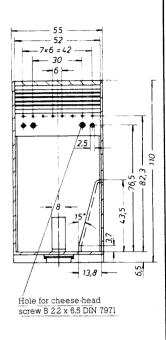
Description	Execution	Colour	Order No.
Housing base		light grey	414 124
Housing cover Housing cover Housing cover		light grey transparent dark grey	203 032 203 031 203 030
Terminal housing Terminal housing Terminal housing Terminal housing	narrow narrow wide wide	dark grey blue dark grey blue	103 031 103 033 103 032 103 034
PCB terminal pin PCB terminal pin	short long		113 024 113 025
Terminal, unassembled			103 008
Blind plug		dark grey	103 006



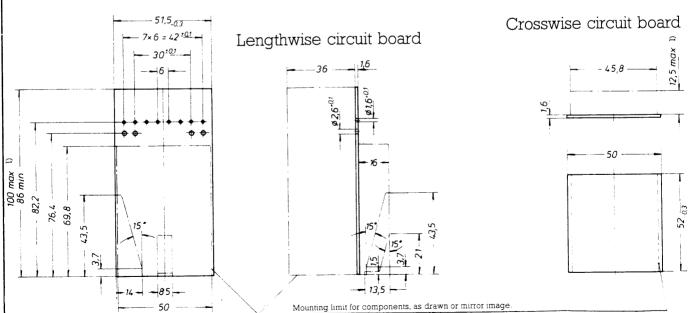


62,5

LDG-A-16



Recommended circuit board dimensions



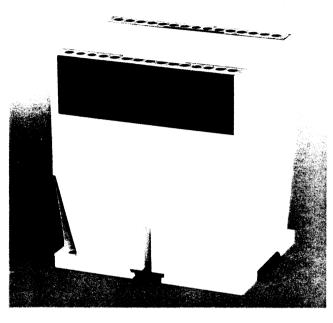
 height depends on location of the crosswise circuit board $\underline{\underline{\text{Note:}}}$ reduced space for components in the corner area

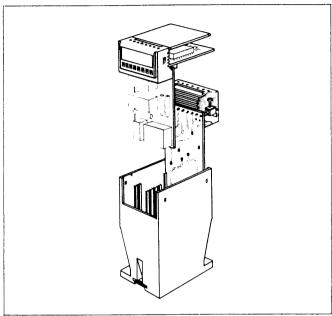
See also dimension sheet.



for max. 30 connections

LDG-A-30





LDG-A-30 housings are capable of accomodating up to two lengthwise circuit boards in addition to one top circuit board as a crosswise connection and to accomodate any actuating and indicating elements.

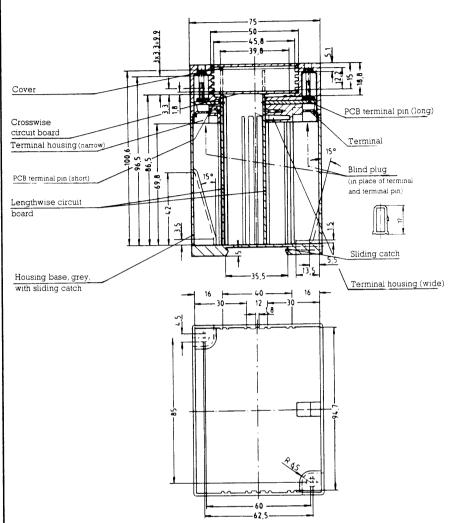
The two differently sized terminal housings can be fitted with as many terminal pins and terminals as are required.

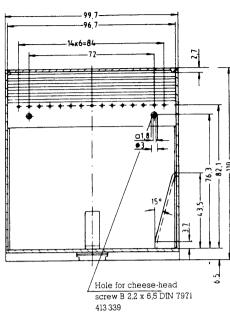
The narrower terminal housing is fitted with shorter terminal pins and the wider housing with longer terminal pins. The housing can be mounted either by means of screws passed through the two holes to DIN 46 121 and DIN 43 660 or by a snap fastener for fitting to DIN 46 277 and DIN EN 50 022 assembly rails.

Description	Execution	Colour	Order No.
Housing base		light grey	414 165
Housing cover Housing cover Housing cover		light grey transparent dark grey	413 962 413 963 413 964
Terminal housing Terminal housing Terminal housing Terminal housing	narrow narrow wide wide	dark grey blue dark grey blue	413 966 413 965 413 968 413 967
PCB terminal pin PCB terminal pin	short long		113 024 113 025
Terminal, unassembled			103 008
Blind plug		dark grey	103 006

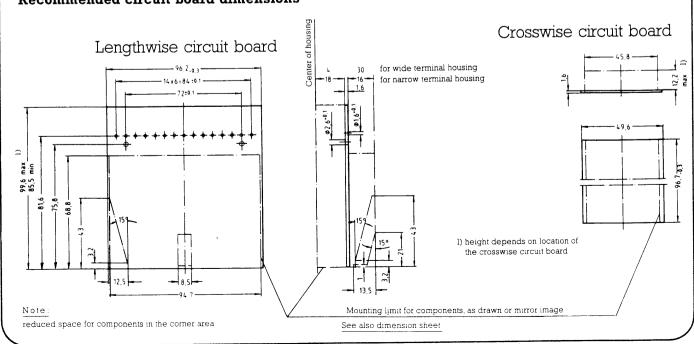


LDG-A-30





Recommended circuit board dimensions

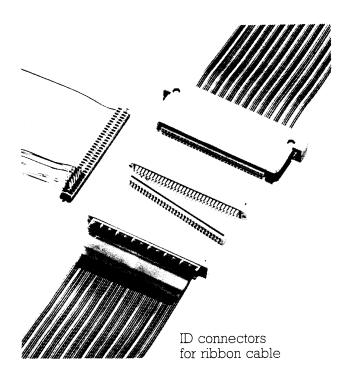


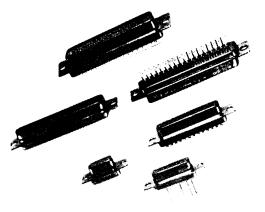


Further products:

PCB relays with 1, 2 or 4 switching contacts High voltage relays combined with micro-switches Decade- and Coding-Switches Display-units Miniature rotary (coding-) switches Miniature step- (rotary) switches Flat mounting rotary switches Male contact-strips Direct PCB-connectors Two-piece connectors to DIN 41612 and VG 95324 Subminiature-D connectors with machined and die-cut contacts A complete range of hoods suitable for all DIN/VG and Subminiature-D connectors PC-boards to customer's specifications. equipped with ERNIPRESS connectors, incl. supply of PC-Boards.







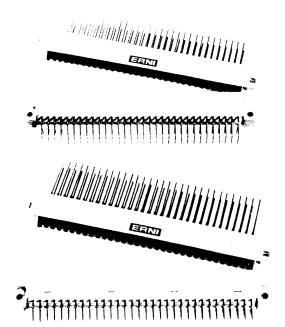
Subminiature D connectors



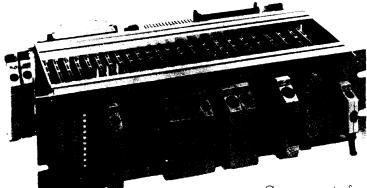




Relays



Connectors as per DIN 41612



Components for mateable transfer-wirings