



Enclosures LDG-A





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Types

LDG-A-12, max. 12 screw clamp terminals
LDG-A-14, max. 14 screw clamp terminals
LDG-A-16, max. 16 screw clamp terminals
LDG-A-30, max. 30 screw clamp terminals
LDG-A-46, max. 46 screw clamp terminals
LDG-A-70, max. 70 screw clamp terminals

General

The LDG-A series of enclosures are fully insulated enclosures. The screw clamp terminals are protected against accidental contact in accordance with VDE 0100 Part 570, VDE 0160 Part 100 and VBG 4.

Designed for easy installation, these screw terminals can be soldered by wave, allowing the manufacturing of the PCB boards in one step.

Features

- Snap-in design for fast end assembly
- Complete assembly of the unit outside of the housing before end assembly
- Robust self locking vibration proof terminal block screws
- Protection against accidental human contact
- Transparent cover for LED indicators
- Suitable frame inserts for pluggable standard connectors
- Base parts with and without ventilation slots
- Base part metallized
- Compact and attractive design
- Wall and DIN rail mountable

Type	LDG-A-12	LDG-A-14	LDG-A-16	LDG-A30	LDG-A-46	LDG-A-70
Degree of protection	IP20					
Air distances	≥ 3 mm	≥ 4 mm				
Creepage distances	≥ 3.2 mm	≥ 5 mm				
Voltage rating (IEC 60664)	The permissible operating voltages depend on the customer application and on the applicable or specified safety requirements. Insulation coordination according to IEC 60664-1 has to be regarded for the complete electrical device. Therefore, the maximum creepage and clearance distances of the mated connectors are specified for consideration as a part of the whole current path. In practice, reductions in creepage or clearance distances may occur due to the conductive pattern of the printed board or the wiring used, and have to be taken into account separately. As a result the creepage and clearance distances for the application may be reduced compared to those of the connector.					
Screw clamp	steel, tin plated					
Terminal wire size	max. 2.5 mm²	max. 4 mm²				
current rating	max. 16 A	max. 20 A				
tightening torque	max. 0.4 Nm					
material	CuSn6	Ms				
Terminal pin plating	2 µm Ni 5 µm Sn	2 µm Ni 5 µm Sn				
Temperature range	-40° C ... +110° C					
Base part	PC (30% GF), RAL 7032, UL 94 V-1					
Terminal block housing, blind plug, cover	PC, UL 94 V-2					
Frame insert and blind insert	PC, UL 94 V-0					
Outside dimensions L x B 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
Aprovaes UL	File E 84703					
CSA	File LR 62504					

Temperature Range

Enclosure Typ LDG-A-	Inside temperature 95°								
	Ambient temperature								
	23°C			50°C			70°C		
	A	B	C	A	B	C	A	B	C
12	8	6	3	5	4	2	2,5	2	1
14	12	10	7	7	6	4	4	3	2
16	13	11	9	8	7	5	4	3,5	3
30	19	18	16	12	11	10	7	6	5
46	26	23	20	16	14	12	9	8	7
70	36	33	30	23	21	19	12	10	11
Dissipation in W									

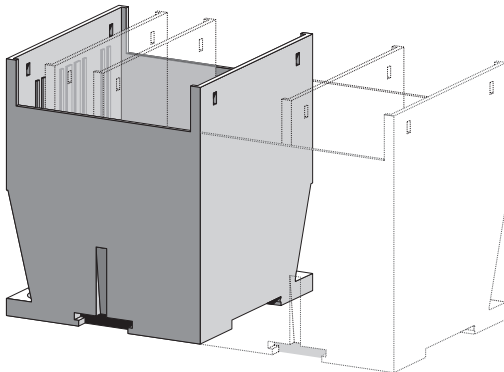
A = Both side faces not obstructed, free airflow

B = One side face blocked by obstruction, 0 mm away

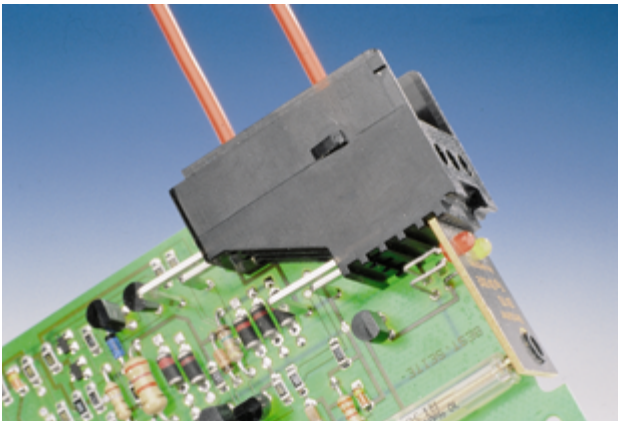
C = Both side face blocked by obstruction, 0 mm away

Enclosures LDG-A

The base for all applications



Fully-insulated enclosures in accordance with machinery and automotive industry standards, with shockproof terminals acc. to VDE 0100 and VBG 4.
Base part optionally with or without ventilation slots.
Enclosure surface with erosion-structure in attractive design.
Easy assembly and disassembly for servicing.



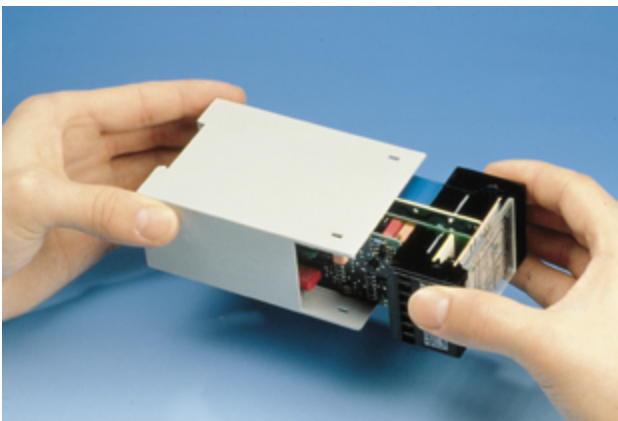
Easy connecting technique

From the connection cable via the terminal block to the PC board, the connection could not be more simple.



Generously dimensioned stacking compartment

Printed circuit boards can be stacked one above the other such that complex assemblies can be implemented in compact dimensions.



Fast component-mounting and manufacturing times

The PC board, with the mounted components and terminal blocks will be wave-soldered, in one work process and then completely assembled into the base part in one step.

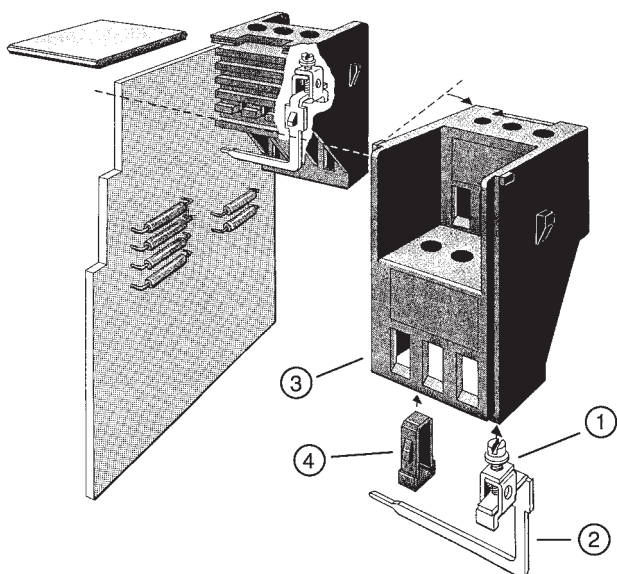


Just snap them on

LDG-A enclosures have a snap-on clip for easy snap-on assembly for standard DIN rails acc. to DIN 46277 and DIN EN 50022.

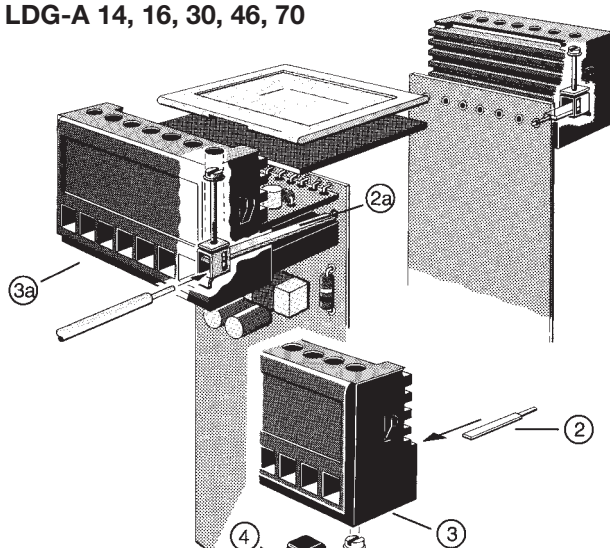
Enclosures LDG-A

Terminal block design and type overview



- 1 Terminal clamp
- 2 Terminal pin
- 3 Terminal block housing
- 4 Blind plug

LDG-A 14, 16, 30, 46, 70



- 1 Terminal clamp
- 2 Terminal pin, short
- 2a Terminal pin, long
- 3 Terminal block housing, narrow
- 3a Terminal block housing, wide
- 4 Blind plug



LDG-A 12

Length: 75 mm
Width: 22.5 mm
Height: 98.5 mm
or 110 mm



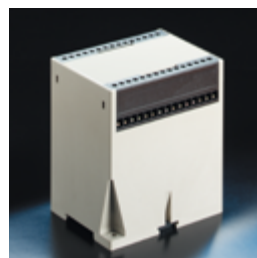
LDG-A 14

Length: 75 mm
Width: 45 mm
Height: 110 mm



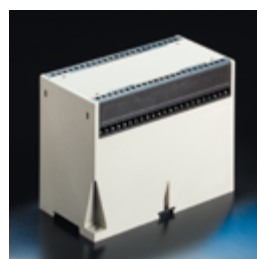
LDG-A 16

Length: 75 mm
Width: 55 mm
Height: 110 mm



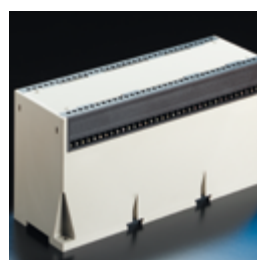
LDG-A 30

Length: 75 mm
Width: 99.7 mm
Height: 110 mm



LDG-A 46

Length: 75 mm
Width: 150 mm
Height: 110 mm



LDG-A 70

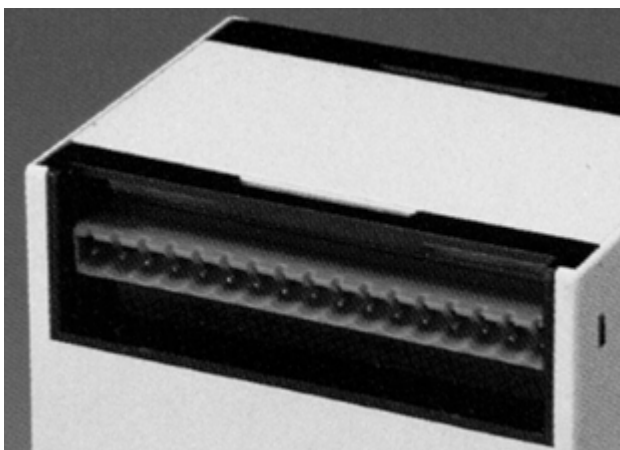
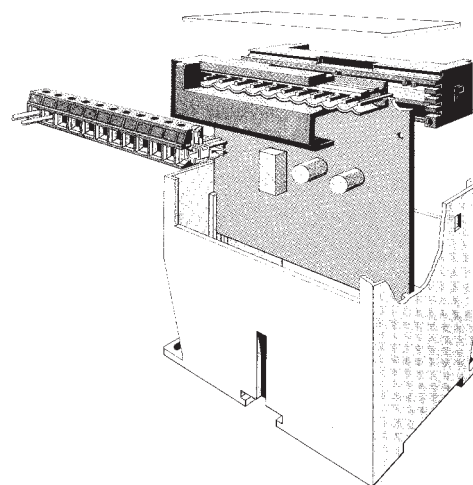
Length: 75 mm
Width: 225 mm
Height: 110 mm

Easy service and device exchange

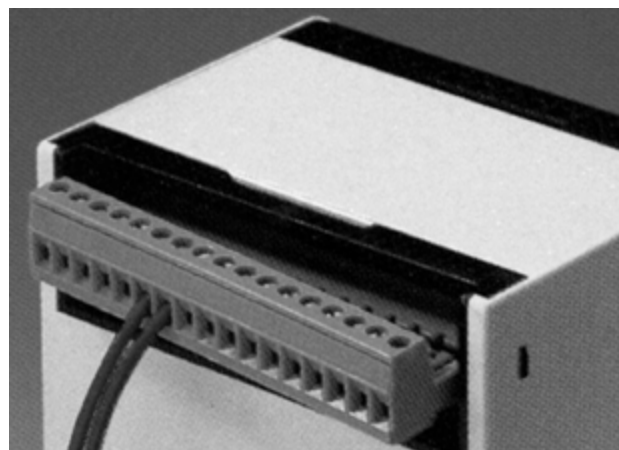
Frame inserts with cut-out for commercially available pluggable terminal connectors

Features:

- Used as assembly and guide element for the PC board with guides for transverse board and longitudinal board offset by 90°.
- Compact design for secure snap-on and safe fixing on the base part.
- Screw-on option for the cover.



Frame insert with top cutout for separate pin header. For maximum component space on the longitudinal board.



Connection of commercially available screw-plug connectors.

Ordering information

Description	Color	Part no.
LDG-A-16 Frame insert with top cutout	black	053869
Frame insert with bottom cutout	black	053870
Blind insert	black	053871
LDG-A-30 Frame insert with top cutout	black	034769
Frame insert with bottom cutout	black	053164
Blind insert	black	053074
LDG-A-46 Frame insert with bottom insert	black	054248
Blind insert	black	054249
LDG-A-70 Blind insert	black	054730

Frame insert with top cutout for separate pin header. You will have the maximum component space on the PC board.

Frame insert with bottom cutout allows the assembly of a transverse board.

The **blind insert** provides for the full covering of the base part. Individual customized cutouts achieved by mechanical machining or special tool inserts are easy to be realized.

Technical data

Material of plastic parts: PC
UL 94 V-0
Color: black
special colors upon request
Temperature range: -40°C up to +110°C

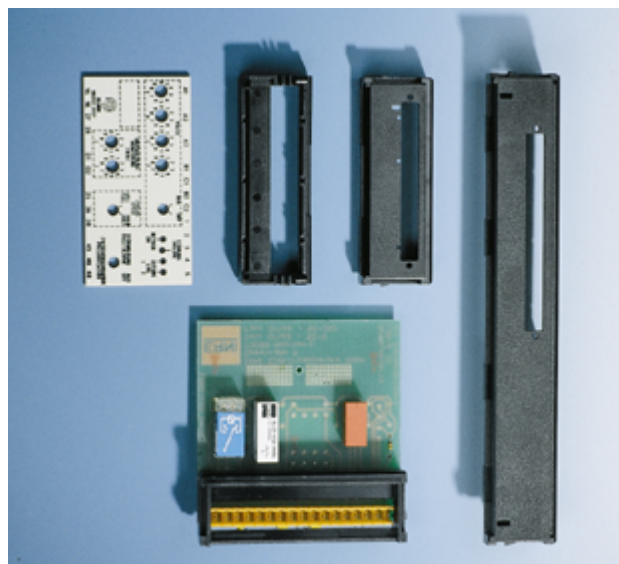
Various colors, e. g. company color for base part, cover or terminal block possible



Cover in grey, black or transparent for display functions



Customized cutouts and holes in covers and blind inserts



Effective heat dissipation for electronic subassemblies with increased heating



Base part with ventilation slots

- available for enclosure versions LDG-A-12, LDG-A-16, LDG-A-30, LDG-A-46, LDG-A-70
- slot dimension: 42 x 3 mm
- additional data upon request

Ordering information

Description	Color	Part no.
Base part with ventilation slots		
LDG-A-12	light grey	114932
LDG-A-16	light grey	024870
LDG-A-30	light grey	434098
LDG-A-46	light grey	024080
LDG-A-70	light grey	424328



- For max. 12 screw clamp terminals, 6 on each side
- Partial loaded terminal blocks with blind plugs
- PCB board arrangement see drawing

Length: 75 mm

Width: 22.5 mm

Height: 98.5 mm or 110 mm

Ordering information

Description	Type	Color	Part Number
Base part 110 mm	w/o ventilation slot	light grey	024082
Base part 110 mm	with ventilation slot	light grey	114932
Base part 98,5 mm	w/o ventilation slot	light grey	414470
Cover		transparent	414462
Cover		light grey	414463
Terminal block housing	right	black	414453
Terminal block housing	left	black	414455
Terminal pin	right, long		224082
Terminal pin	right, medium		224079
Terminal pin	right, short		224078
Terminal pin	left, long		224081
Terminal pin	left, medium		224077
Terminal pin	left, short		224080
Clamp, not assembled			414469
Terminal block, fully loaded	right	black	043853
Terminal block, fully loaded	left	black	043860
Blind plug		black	414466

Technical drawing of a terminal block assembly, showing three views: a detailed cross-section, a side view, and a front view. Dimensions are provided in millimeters.

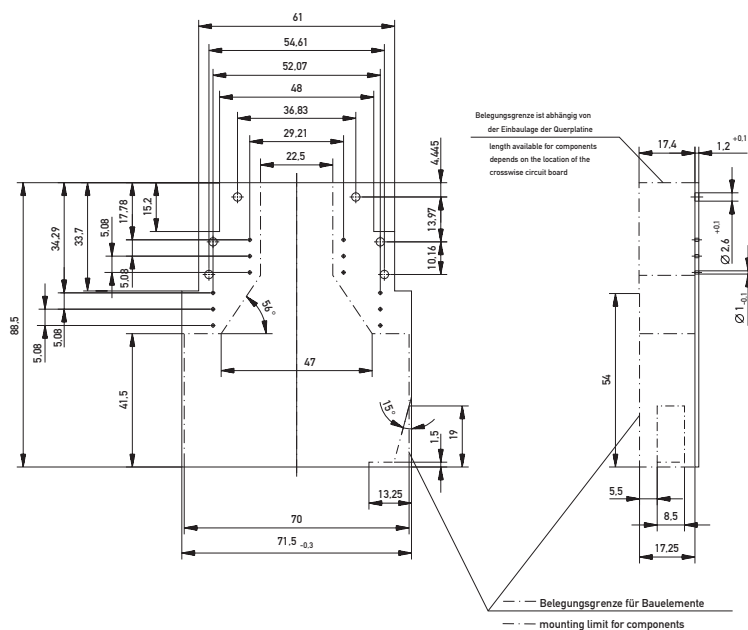
Labels and Components:

- Deckel / Cover
- Querplatine / Crosswise circuit board
- Klemmengehäuse, links / Terminal housing, left
- Schraubenloch für Blechschraube / Hole for tapping screw ISO 1481-ST 2.2x6.5
- Printklemmstift, links / PCB terminal pin, left (lang, mittel, kurz / long, middle, short)
- Gehäuse-Unterteil / Housing base
- Klemmengehäuse, rechts / Terminal housing, right
- Klemme / Terminal
- Printklemmstift, rechts / PCB terminal pin, right (lang, mittel, kurz / long, middle, short)
- Blindstopfen / Blind plug (anstelle Klemme und Print-Klemmstift / in place of terminal and terminal pin)
- Rastschieber / Sliding catch
- Längsplatine / Lengthwise circuit board

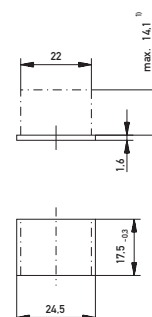
Dimensions (mm):

- Cross-section (Left):** 92, 72, 55.5, 5x3.1, 15.5, 3.1, 1.8, 4.5, 2.8, 14.1, 89.2, 1.7, 5.5, 13.5, 35.5, 72, 1, 11.7, 14.5, 75.
- Cross-section (Right):** 22.5, 20.1, 1.2, 5.6, 5.6, 2.55, 3.2, 98.5, 8, 17.4, 19.8.
- Blind plug detail:** 17.
- Front view:** 72, 1, 11.7, 14.5, 75.

Längsplatine / Lengthwise circuit board



Querplatine / Crosswise circuit board



1) Höhe ist abhängig von der Einbaulage der Querplatine

1) height depends on location of the crosswise circuit board

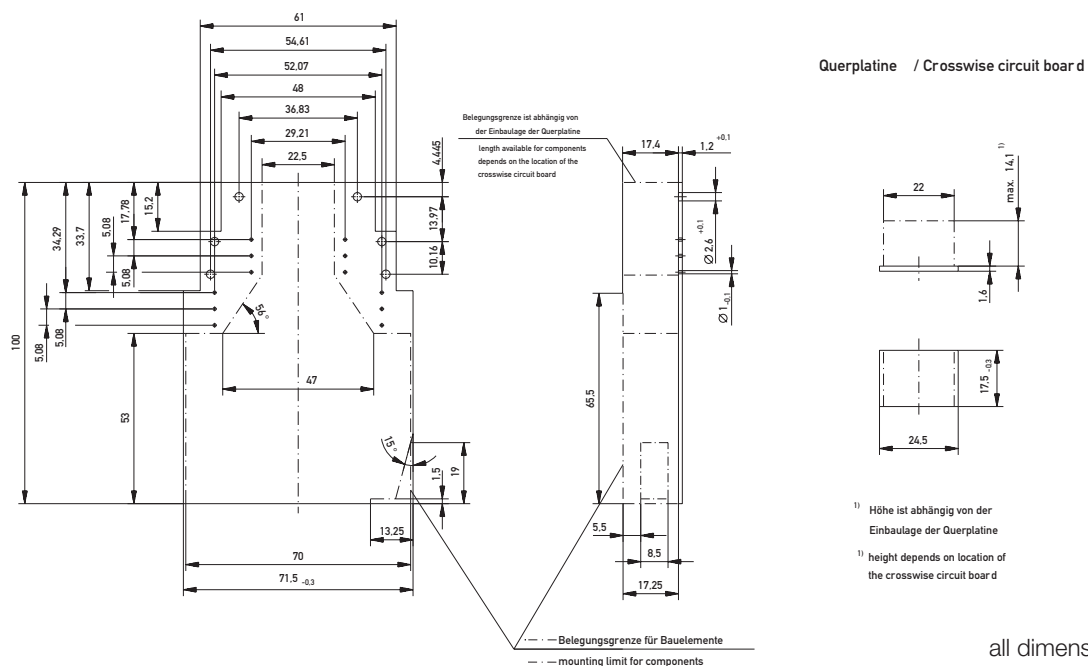
all dimensions in mm

Deckel
 Cover
 Querplatine
 Crosswise circuit board
 Klemmgehäuse, links
 Terminal housing, left
 Schraubenloch für Blechschraube
 Hole for tapping scr ew
 ISO 1481-ST 2.2x6.5
 Printklemmstift, links
 PCB terminal pin, left
 lang. mittel, kurz
 long, middle, short
 Gehäuse-Unterteil
 Housing base
 Klemmgehäuse, rechts
 Terminal housing, right
 Klemme
 Terminal
 Printklemmstift, rechts
 PCB terminal pin, right
 lang. mittel, kurz
 long, middle, short
 Blindstopfen / Blind plug
 (anstelle Klemme und Print-Klemmstift)
 (in place of terminal and terminal pin)
 Rastschieber
 Sliding catch
 Längsplatine
 Lengthwise circuit board

5x3,1 = 15,5
 25
 23
 2,8
 14,1
 100,7
 103,5
 83,5
 67
 5
 35,5
 13,5
 5,5
 1,7
 15°
 17
 20,1
 1,2
 5,6
 5,6
 2,55
 3,2
 110
 8
 17,4
 19,8
 72
 1
 11,2
 14,5
 75

all dimensions in mm

Längsplatine / Lengthwise circuit board



all dimensions in mm



- For max. 14 screw clamp terminals , 7 on each side
- Partial loaded terminal blocks with blind plugs
- PCB board arrangement see drawing

Length: 75 mm
Width: 45 mm
Height: 110 mm

Ordering information

Description	Type	Color	Part Number
Base part	w/o ventilation slots	light grey	423280
Cover		light grey	423273
Cover		transparent	423272
Cover		black	423274
Terminal block housing	narrow	black	423275
Terminal block housing	wide	black	423277
Terminal pin	short		224076
Terminal pin	long		224074
Clamp, not assembled			154562
Terminal block, fully loaded	narrow	black	914810
Terminal block, fully loaded	wide	black	914820
Blind plug		black	103006

Front Elevation:

- Gehäuse-Deckel / Cover
- Klemmengehäuse (schmal) / Terminal housing (narrow)
- Querplatine / Crosswise circuit board
- Print-Klemmstift (kurz) / PCB terminal pin (short)
- Längsplatine / Lengthwise circuit board
- Gehäuse-Unterteil / Housing base
- Klemmengehäuse (breit) / Terminal housing (wide)
- Print-Klemmstift (lang) / PCB terminal pin (long)
- Klemme / Terminal
- Blindstopfen / Blind plug (anstelle Klemme und Print-Klemmstift) (in place of terminal and terminal pin)
- Rastschieber / Sliding catch

Side Elevation:

- Schraubenloch für Blechschaube / Hole for tapping screw (ISO 1481-ST 2.2x6.5)

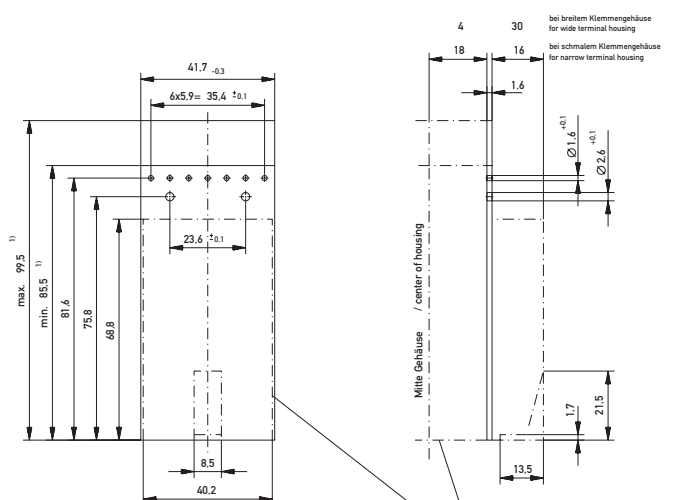
Top View:

The drawing shows the internal layout of the terminal box with various dimensions for mounting and clearance.

Dimensions (mm):

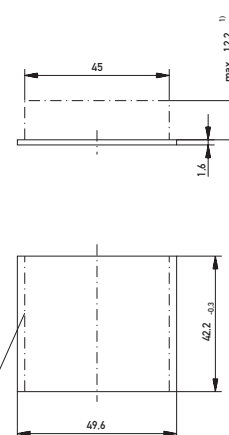
- Overall width: 75
- Terminal housing widths: 50.4, 45.8
- Internal vertical dimensions: 103.3, 100.5, 86.5, 96.8, 69.8, 5, 1.7, 35.5, 13.5, 5.5
- Horizontal dimensions: 72, 39.8, 12, 1.8, 40.2
- Terminal housing depth: 42.2
- Terminal pitch: 6x5.9 = 35.4
- Terminal width: 5.9
- Terminal height: 2.8
- Terminal hole diameter: Ø 3
- Terminal offset: 23.6
- Total height: 110
- Base height: 76.3
- Base offset: 82.1
- Base width: 8

Längsplatine / Lengthwise circuit board



Achtung: Im Eckenbereich verringerte Einbauhöhen
Note: reduced space for components in the corner area

Querplatine / Crosswise circuit board



all dimensions in mm



- For max. 16 screw clamp terminals, 8 on each side
- Partial loaded terminal blocks with blind plugs
- PCB board arrangement see drawing
- Special frames for pluggable standard connectors available

Length: 75 mm
Width: 55 mm
Height: 110 mm

Ordering information

Description	Type	Color	Part Number
Base part	w/o ventilation slots	light grey	414124
Base part	with ventilation slots	light grey	024870
Cover		light grey	014415
Cover		transparent	014416
Cover		black	014417
Terminal block housing	narrow	black	103031
Terminal block housing	narrow	blue	103033
Terminal block housing	wide	black	103032
Terminal block housing	wide	blue	103034
Terminal pin	short		224076
Terminal pin	long		224074
Clamp, not assembled			154562
Terminal block, fully loaded	narrow	black	914830
Terminal block, fully loaded	wide	black	914840
Blind plug		black	103006
Frame insert for pluggable connectors	Top cutout	black	053869
Frame insert for pluggable connectors	Bottom cutout	black	053870
Blind insert		black	053871

Technical Drawing of ISO 1481-ST 2 Tapping Screw

Labels and Dimensions:

- Gehäuse-Deckel** / **Cover**
- Klemmengehäuse (schmal)** / **Terminal housing (narrow)**
- Querplatine** / **Crosswise circuit board**
- Print-Klemmslift (kurz)** / **PCB terminal pin (short)**
- Längsplatine** / **Lengthwise circuit board**
- Gehäuse-Unterteil** / **Housing base**
- Klemmengehäuse (breit)** / **Terminal housing (wide)**
- Print-Klemmslift (lang)** / **PCB terminal pin (long)**
- Klemme** / **Terminal**
- Blindstopfen** / **Blind plug**
 (versteckt Klemme und Print-Klemmslift)
 (hides terminal and terminal pin)
- Rastschieber** / **Sliding catch**

Dimensions (mm):

- Front View:** 75, 50.4, 45.8, 103.5, 100.7, 60.4, 70, 1.7, 5.5, 13.5, 35.5.
- Side View:** 55, 52, 7x6, 42, 6, 2.8, 110, 62.3, 74.5, 43.5, 17, 13.8, 8.
- Top View:** 72, 39.8, 12, 1.8, 4.5, 37.5, 50, 60, 62.5.

Additional Notes:

- Schraubenloch für Blechschraube**
 Hole for tapping screw
 ISO 1481-ST 2.2x6.5
- 15°** (angle of the blind plug)
- Ø 2.5** (hole diameter for terminal pin)
- Ø 3** (hole diameter for terminal pin)
- Ø 1.8** (hole diameter for terminal pin)
- R 4.5** (fillet radius)

Recommended PCB dimensions

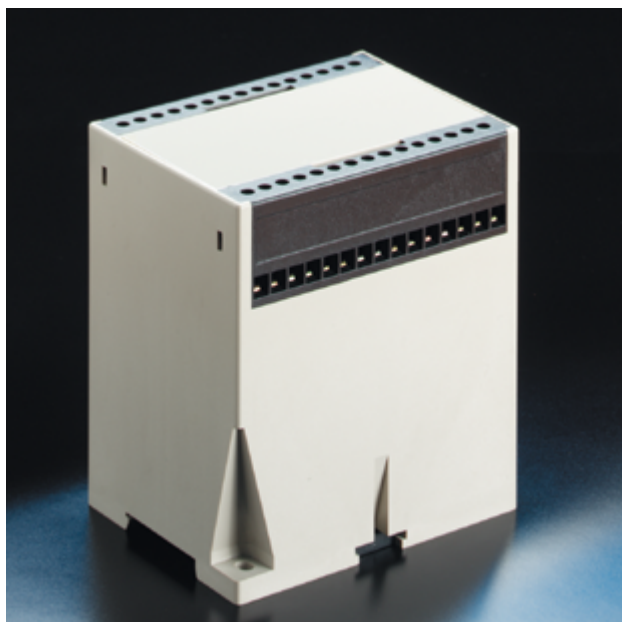
Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes a side view and a top view. Key dimensions and tolerances are:

- Overall width: 51.5 ± 0.3
- Top view width: 42 ± 0.1
- Top view depth: 30 ± 0.1
- Side view height: 99.7 B (max), 85.4 b (min)
- Side view height segments: 81.8, 76, 69, 43.5, 3.3
- Top view depth segments: 14, 8.5
- Angle: 15°

Technical drawing of a terminal housing. The drawing shows a side view of the housing with various dimensions and labels. The top dimensions are 4, 30, 18, and 16. The bottom dimensions are 12.6, 13.6, 1.6, 1.7, 3.3, 21.5, and 49.5. The drawing includes a label 'Mitt. Gehäuse / center of housing' and a label 'bei breitem Klemmgehäuse / for wide terminal housing' and 'bei schmalen Klemmgehäuse / for narrow terminal housing'. The drawing also shows a cross-section of the housing with a 15° angle and a 1.6 mm dimension. The drawing includes a label 'Ø 1.6' and 'Ø 2.6' with a tolerance of +0.1.

Technical drawing of a rectangular plate. The drawing includes two views: a top view and a side view. The top view shows a rectangle with a width of 45 mm and a height of 52.43 mm. The side view shows a rectangle with a width of 49.6 mm and a height of 1.6 mm. The dimensions are labeled with tolerances: 45 mm, 52.43 mm, 49.6 mm, and 1.6 mm. The side view also indicates a maximum height of 12.5 mm.

all dimensions in mm



- For max. 30 screw clamp terminals, 15 on each side
- Partial loaded terminal blocks with blind plugs
- PCB board arrangement see drawing

Usage of standard connectors

- Special frames for pluggable standard connectors available
- Pitch of 5.08 mm allows connection of 17 wires on each side

Length: 75 mm

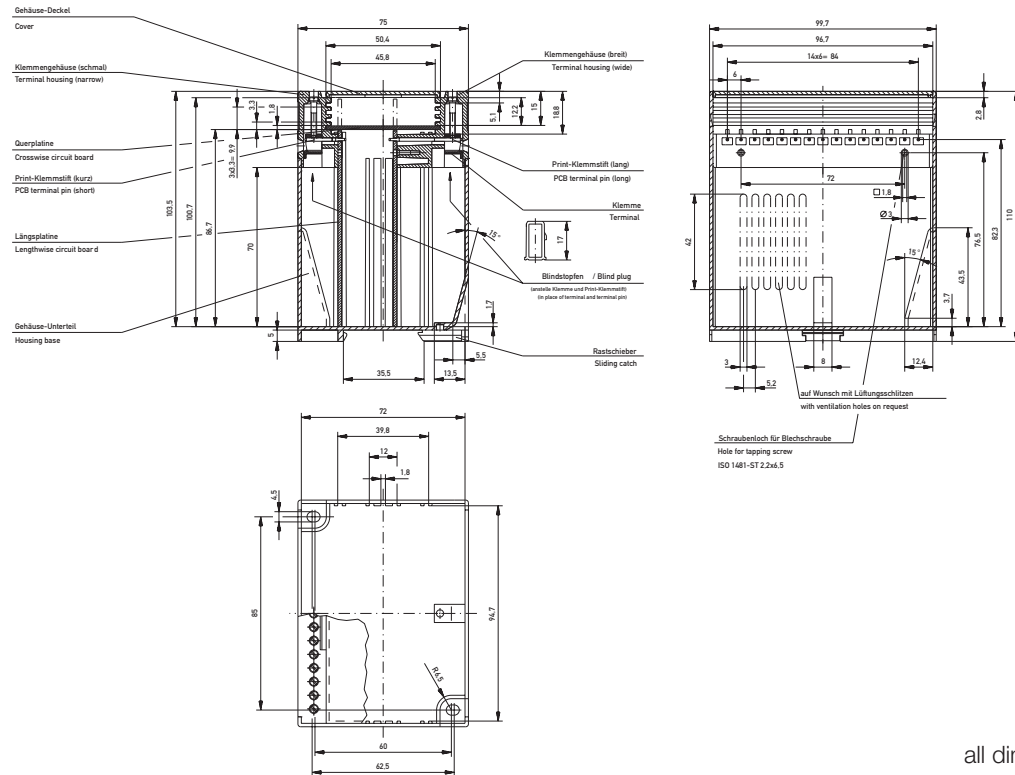
Width: 99.7 mm

Height: 110 mm

Ordering information

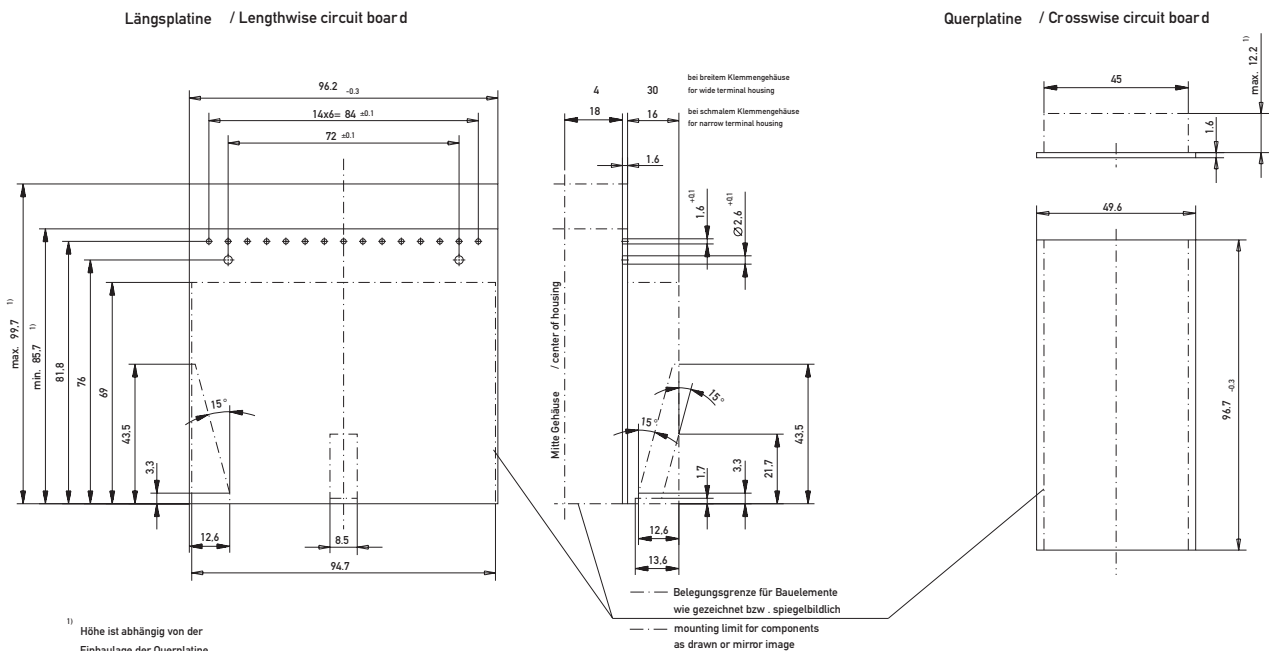
Description	Type	Color	Part Number
Base part	w/o ventilation slots	light grey	414165
Base part	with ventilation slots	light grey	434098
Cover		light grey	413962
Cover		transparent	413963
Cover		black	413964
Terminal block housing	narrow	black	413966
Terminal block housing	narrow	blue	413965
Terminal block housing	wide	black	413968
Terminal block housing	wide	blue	413967
Terminal pin	short		224076
Terminal pin	long		224074
Clamp, not assembled			154562
Terminal block, fully loaded	narrow	black	914850
Terminal block, fully loaded	wide	black	914860
Blind plug		black	103006
Frame insert for pluggable connectors	Top cutout	black	034769
Frame insert for pluggable connectors	Bottom cutout	black	053164
Blind insert		black	053074

Dimensions



all dimensions in mm

Recommended PCB dimensions

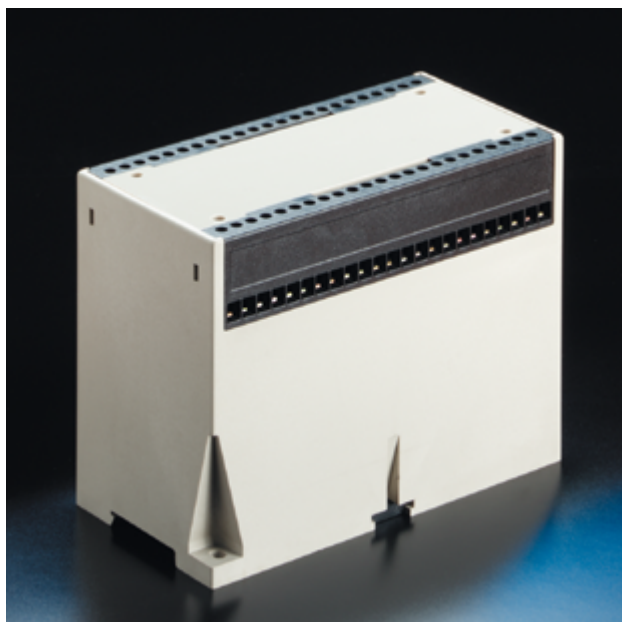


¹⁾ Höhe ist abhängig von der Einbaulage der Querplatine

¹⁾ height depends on location of the crosswise circuit board

Achtung: Im Eckenbereich verringerte Einbauhöhen
Note: reduced space for components in the corner area

all dimensions in mm



- For max. 46 screw clamp terminals, 23 on each side
- Partial loaded terminal blocks with blind plugs
- PCB board arrangement see drawing

Usage of standard connectors

- Special frames for pluggable standard connectors available
- Pitch of 5.08 mm allows connection of 26 wires on each side

Length: 75 mm

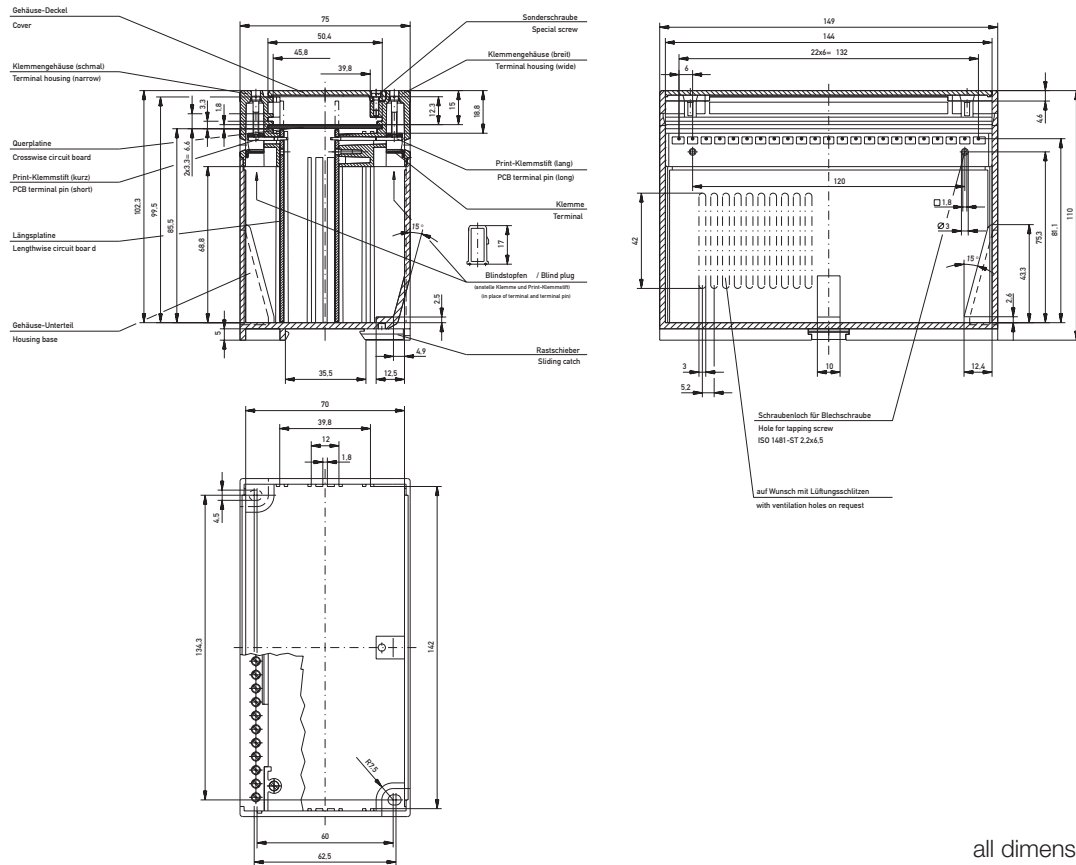
Width: 150 mm

Height: 110 mm

Ordering information

Description	Type	Color	Part Number
Base part	w/o ventilation slots	light grey	024078
Base part	with ventilation slots	light grey	024080
Cover		light grey	014818
Cover		transparent	014819
Cover		black	014820
Terminal block housing	narrow	black	014649
Terminal block housing	wide	black	014790
Terminal pin	short	black	224076
Terminal pin	long	black	224074
Clamp, not assembled			154562
Terminal block, fully loaded	narrow	black	914890
Terminal block, fully loaded	wide	black	914900
Blind plug		black	103006
Frame insert for pluggable connectors	Bottom cutout	black	054248
Blind insert		black	054249

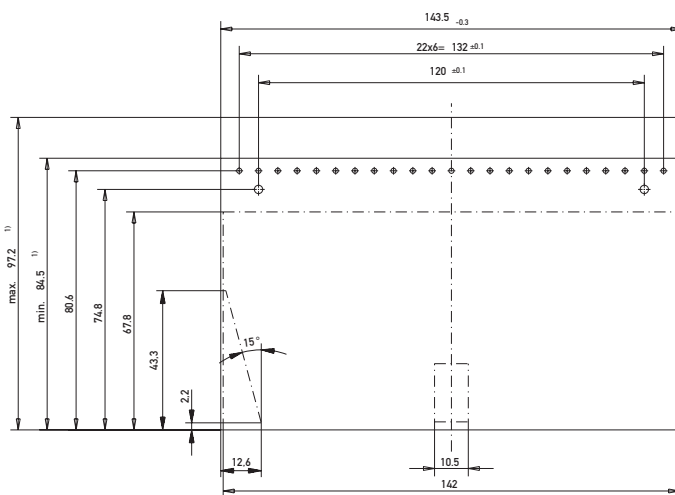
Dimensions



all dimensions in mm

Recommended PCB dimensions

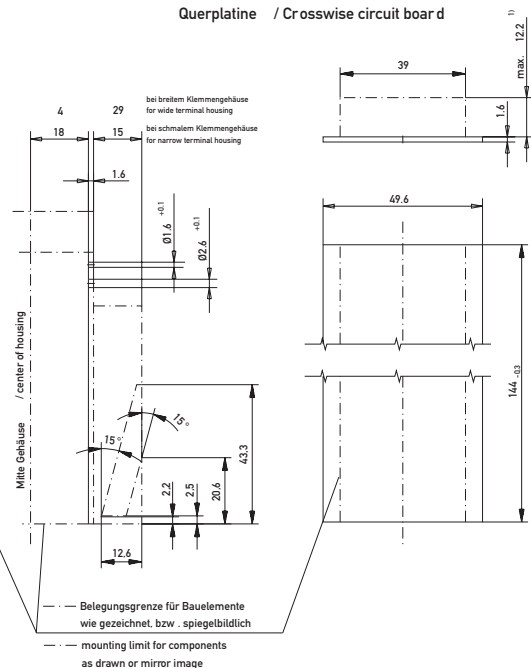
Längsplatine / Lengthwise circuit board



¹⁾ Höhe ist abhängig von der Einbaulage der Querplatine
¹⁾ height depends on location of the crosswise circuit board

Achtung: Im Eckenbereich verringerte Einbauhöhen
 Note: reduced space for components in the corner area

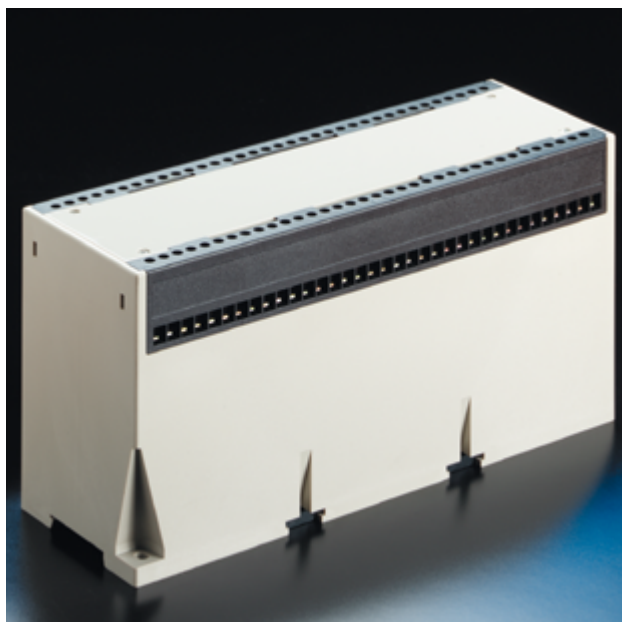
Querplatine / Crosswise circuit board



all dimensions in mm

Enclosures LDG-A

LDG-A 70



- For max. 70 screw clamp terminals, 35 on each side, clamp pitch 6 mm
- Partial loaded terminal blocks with blind plugs
- PCB board arrangement see drawing

Usage of standard connectors

- Special frames for pluggable standard connectors available
- Pitch of 5.08 mm allows connection of 41 wires on each side

Length: 75 mm

Width: 225 mm

Height: 110 mm

Ordering information

Description	Type	Color	Part Number
Base part	w/o ventilation slots	light grey	424327
Base part	with ventilation slots	light grey	424328
Cover		light grey	424243
Cover		transparent	424244
Cover		black	424245
Terminal block housing	narrow	black	424240
Terminal block housing	narrow	blue	424239
Terminal block housing	wide	black	424242
Terminal block housing	wide	blue	424241
Terminal pin	short		224076
Terminal pin	long		224074
Clamp, not assembled			154562
Terminal block, fully loaded	narrow	black	914870
Terminal block, fully loaded	wide	black	914880
Blind plug		black	103006
Blind insert		black	054730

Gehäuse-Deckel
Cover

Klemmgehäuse (schmal)
Terminal housing (narrow)

Querplatine
Crosswise circuit board

Print-Klemmsitz (kurz)
PCB terminal pin (short)

Längsplatine
Lengthwise circuit board

Gehäuse-Unterteil
Housing base

Sonderschraube
Special screw

Klemmgehäuse (breit)
Terminal housing (wide)

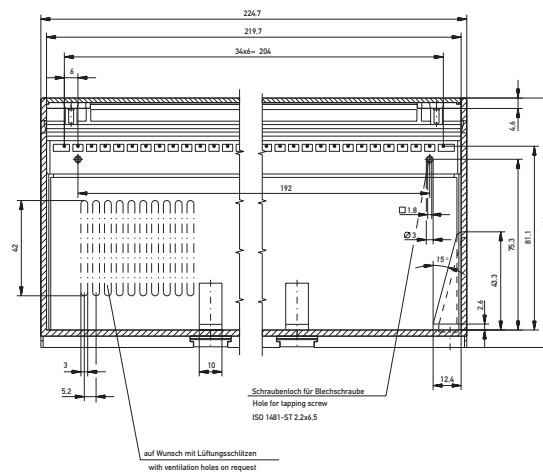
Print-Klemmsitz (lang)
PCB terminal pin (long)

Klemme
Terminal

Blindstopfen / Blind plug
(on place of terminal and terminal pin)

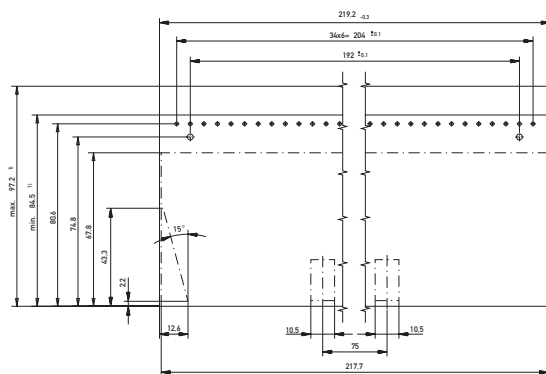
Rastschieber
Sliding catch

Dimensions:
75, 50.4, 45.8, 39.8, 17, 24.2, 16.8, 11, 2.2, 1.8, 25.3 ± 0.3, 4.6, 91.5, 98.5, 68.8, 102.3, 35.5, 12.5, 6.2, 25, 13, 78, 39.8, 12, 1.8, 4.5, 210, 277.7, 75, 60, 62.5, 30.5.



Recommended PCB dimensions

Längsplatine / Lengthwise circuit board

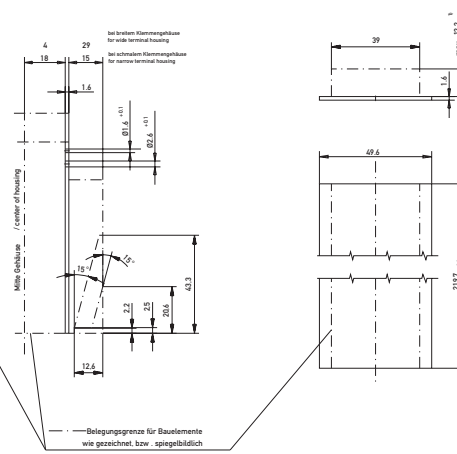


1) Höhe ist abhängig von der Einbaulage der Querplatine

1) height depends on location of the crosswise circuit board

Achtung: Im Eckenbereich verringerte Einbauhöhen
Note: reduced space for components in the corner area

Querplatine / Crosswise circuit board



all dimensions in mm

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