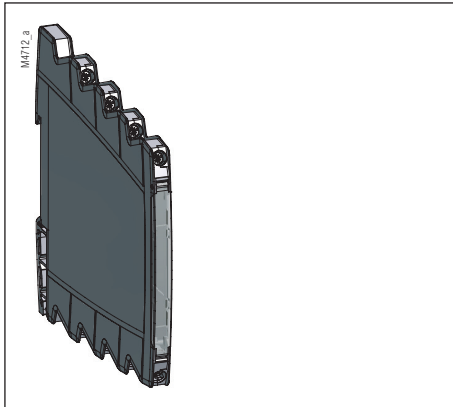


# Insulated Enclosure KS 4460

with fixed integrated screw terminals



## Approvals and Markings



\*) in preparation

### Your Advantages

- Different installation positions of the pcb are possible
- Simple and cost-effective pcb assembly
- Installation height for components up to 5,1 mm
- Fast assembly of the enclosure parts by snap-in installation
- Plenty of space for individual laser markings
- Simple contact with the terminals for testing and measuring purposes through test ports in the terminal area
- Practical wiring due to accessibility of the terminal positions
- Compact enclosure with 6,2 mm width offers a high packing density in the switch cabinet
- Large pcb area

### Features

- Optional openings on the side or front for components, indicating and operating elements
- Hinged front panel (also available with snap-in marking plate)
- Screw connection system for conductors up to 2,5 mm<sup>2</sup>
- 8 connections, tightly integrated on 4 tiers
- Optionally with InRailBus for a quick and reliable transmission of data and energy
- Different colours on request

## Technical Data

Designation	Colour	Order references	Article-No.:	Version	
Enclosure casing	light grey	1-1.10003	0065852	Standard	
	black	1-1.10000	0066525	Standard	
Enclosure casings, mounted with 8 terminals	light grey	KS4460-	1.1	0065855	1), A)
	black		1.2	0066526	1), A)
	light grey		1.4	0066527	1), B)
	black		1.5	0066528	1), B)
	light grey		1.6	0066197	A)
	black		1.8	0066529	A)
Front plate	transparent	3-1	0065853	with provision for marking plate	
		3-2	0065917	solid	

1) with opening for spring contact block; A) Pin length 4.4 mm; B) Pin length 3.65 mm

**Outer dimension:** 6.2 x 96.4 x 106.1 mm

**Enclosure material:** PA, black RAL 9011, light grey RAL 7035  
other colours on request

**Front plate material:** PC, transparent; other colours on request

**Marking plate:**  
**(option):** PA, white

Temperature stability	PA	PC
complying with UL 746 B:	105 °C	115 °C
compl. with Vicat (B50)	230 °C	140 °C
ISO 306 (B120) Meth. B:		141 °C
compl. with ISO 75-2 (1,8 MPa):	75 °C	122 °C
(0,45 MPa):	215 °C	133 °C

Specific thermal resistance:

individual module:  $R_{th} = 32.5 \text{ K/W}$   
20 mm distance:  $R_{th} = 14.3 \text{ K/W}$   
100 mm distance:  $R_{th} = 11.5 \text{ K/W}$

**Flame retardancy** PA PC  
complying with UL 94: V-0 V-2

Number of terminals: 8  
Material / connection plate: CuFe2P, tin-plated  
Cross section: 0.5 - 2.5 mm<sup>2</sup> solid  
0.5 - 2.5 mm<sup>2</sup> stranded ferruled DIN 46 228-1/-2/-3/-4

**Wire stripping or sleeve length:** 8 mm

**Fixing torque:** max. 0.6 Nm

**Wire fastening:** captive plus-minus-terminal screws M3.5  
with self raising terminal box

**Max. contact resistance to printed circuit board:** 10 mΩ

**Max. current carrying capacity:** 10 A

**Inner connection:** solder pin  
(selective- wave soldering with partial covering, selective soldering with mini wave or hand soldering)  
Snap-on fastener on top hat rail IEC/EN 60 715

**Enclosure mounting:** Snap-on fastener on top hat rail IEC/EN 60 715

**Creepage resistance:** PC CTI  $\hat{=}$  275 insulating material IIIa  
PA CTI  $\hat{=}$  600 insulating material I

**Air gap and creepage distance:**  $\geq 5.5 \text{ mm}$  IEC 60 664-1

### Type of protection

Enclosure: IP 40 IEC 60 529  
Terminal strip: IP 20 IEC 60 529

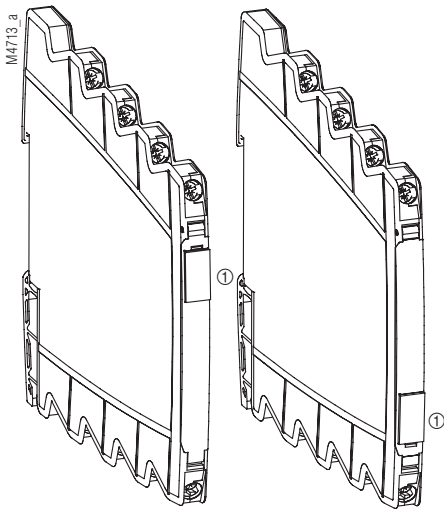
Print area: contact protection complies with BGV A3  
approx. 5 x 50 mm (on front)  
minus marking plate approx. 5 x 10 mm

Printed circuit board area: max. 4850 mm<sup>2</sup>

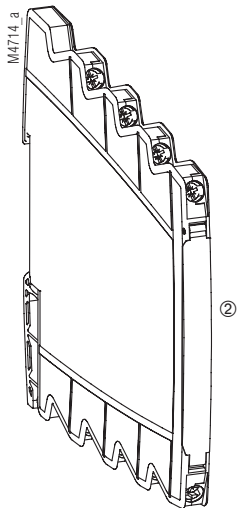
**Printed circuit board:** see printed circuit board design

Printed circuit board holder: enclosure geometry and connection terminals

## Accessories

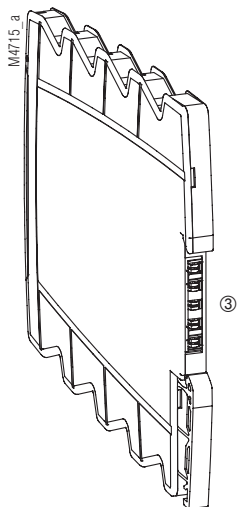


① Marking plate



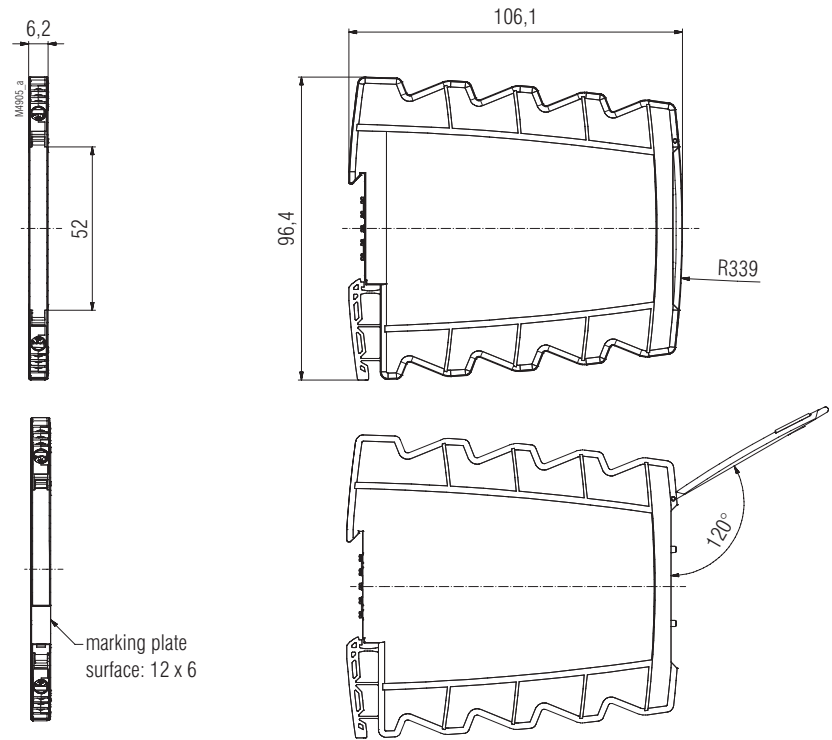
② Solid front plate

## In-Rail-Bus



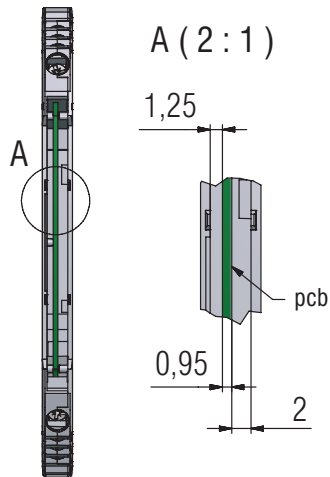
③ see separate datasheet

## Dimensions standard enclosure KS 4460 (IP 40)

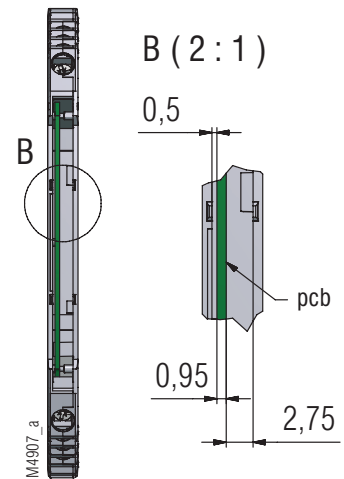


## Position of the pcb in the enclosure:

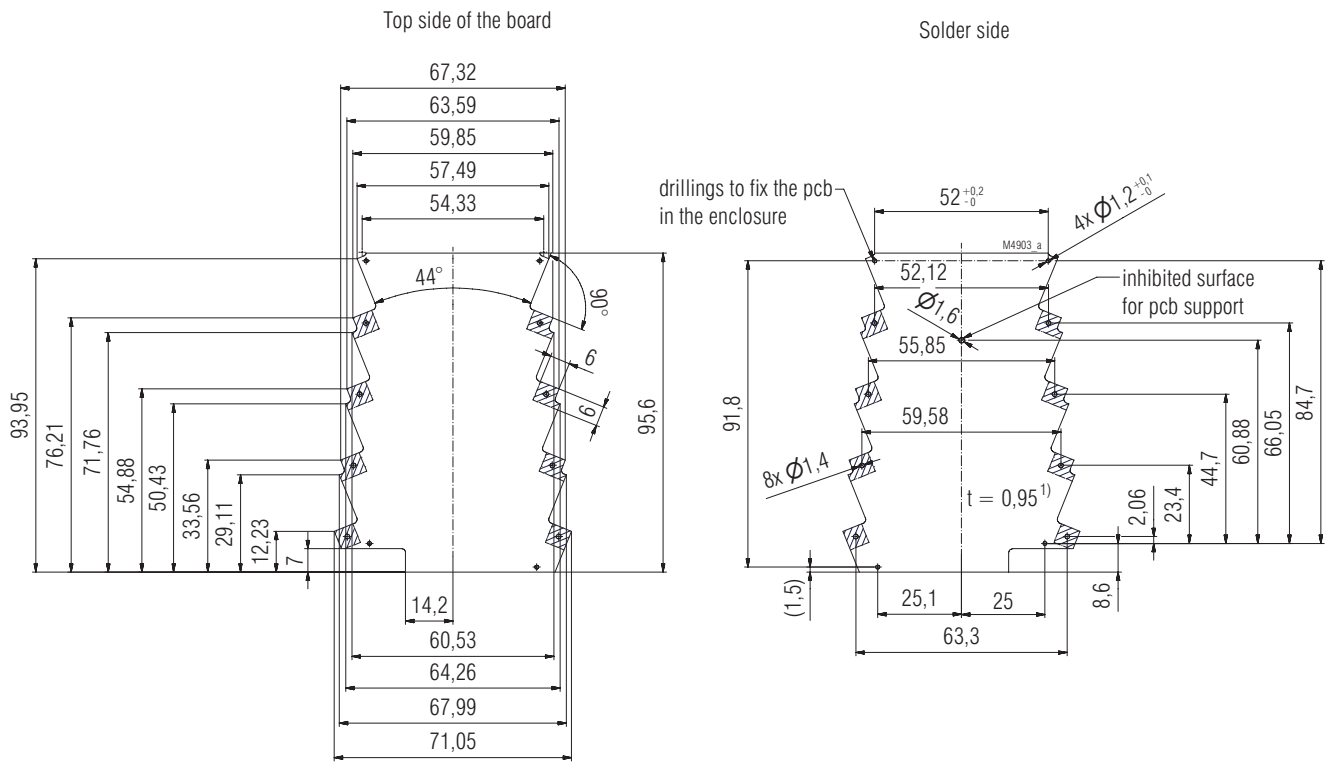
Type A  
-Standard-



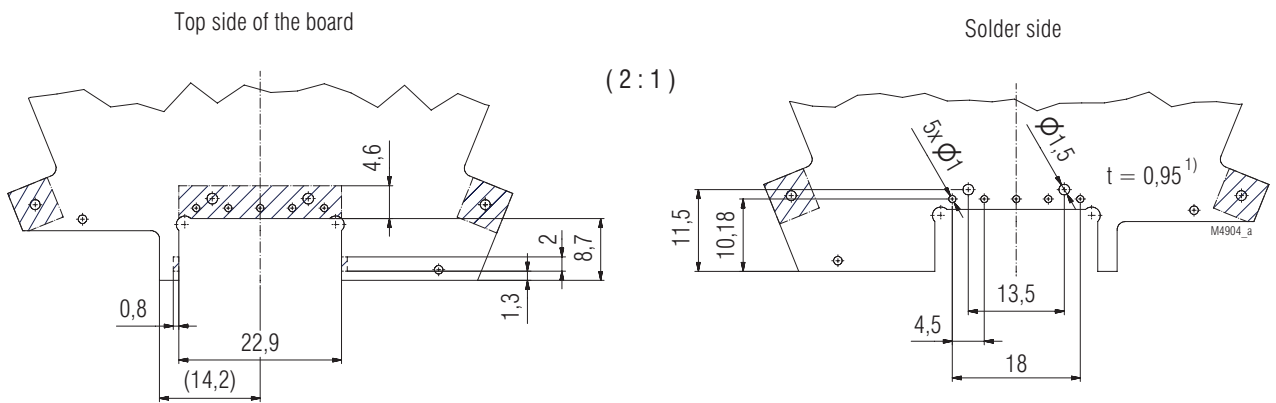
Type B




# Printed circuit board design



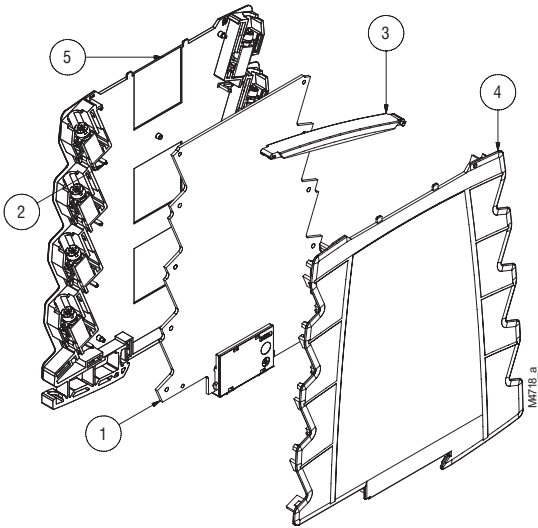
## Area for spring contact block



 Blocked area  
 non dimensioned radii R = 1,2  
 useable pcb surface around 4850 mm<sup>2</sup>

<sup>1)</sup> Tolerance to IEC 60 249-2-4  
 General tolerance: PERFAG 2 E

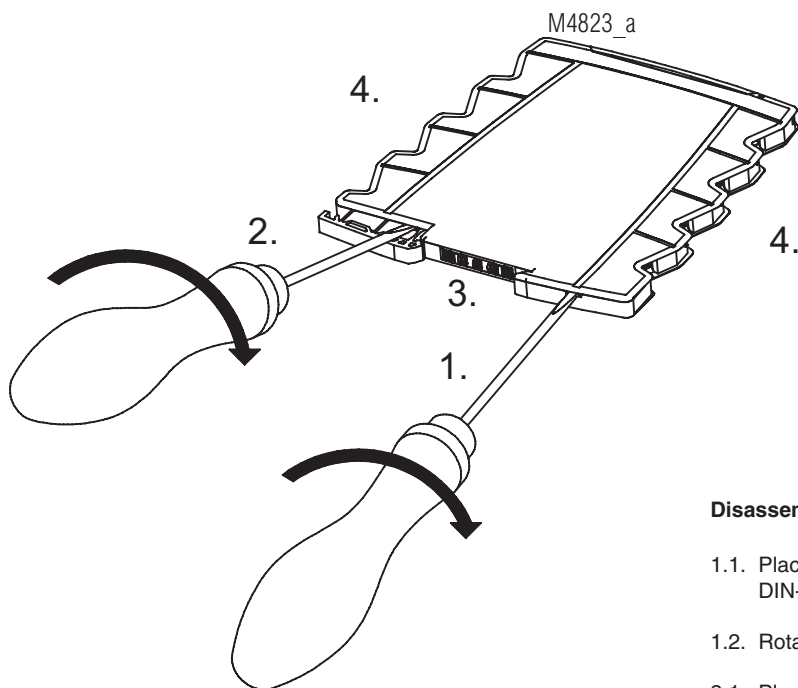
## Notes on housing assembly



### Assembly of enclosure

1. Position the pcb and place it in the enclosure casing with terminals
2. Solder the pins of the terminals with the pcb
3. Place the enclosure front and close it
4. Put on the enclosure casing and align it
5. Close the casings until they snap together

## Notes on housing disassembly



### Disassembly of enclosure

- 1.1. Place the screwdriver in the slot located on the DIN-rail hanger.
- 1.2. Rotate the screwdriver to loosen the snap connections
- 2.1. Place the screwdriver in the slot located on the clip
- 2.2. Rotate the screwdriver to loosen the snap connections
3. Use the screwdriver to loosen all other snappings in the bottom area
4. Use the screwdriver to loosen all other snap connections