

Insulated Enclosure KO 4712

with box terminals
for machine soldering

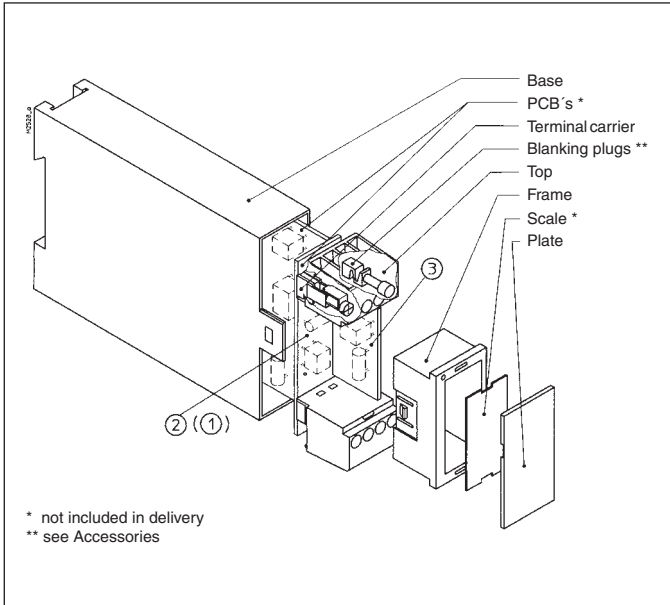


- Width 22.5 mm
- Max. 8 box-terminals with captive plus-minus screws
- without terminals as option
- machine solderable connections
- changeable plate as option
- can be used for EExi complying with EN 50 020

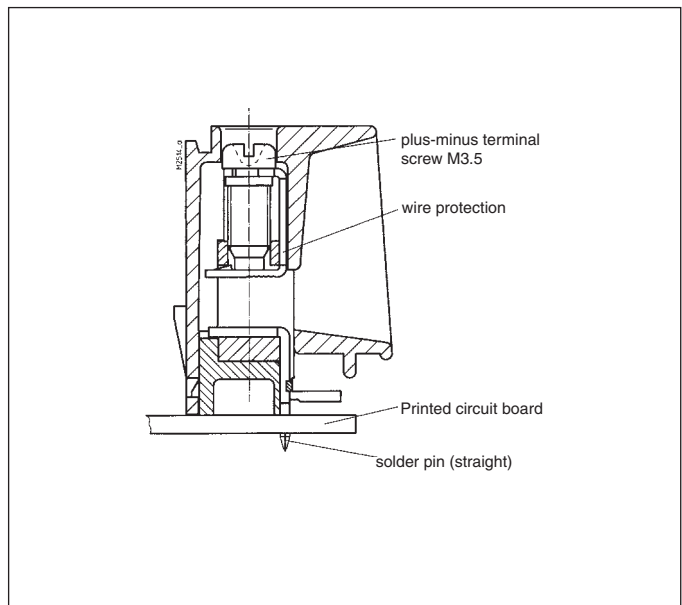
Technical data

Order references: Front colour	beige	light grey RAL 7035	blue RAL 5015	Enclosure variant with
Solder pin straight: KO 4712. KO 4712. KO 4712.	0040076 0040077 0040078	0041461 0041462 0041463	0041464 0041465 0041466	Front plate Plate Plate clear
Solder pin bended: KO 4712. KO 4712. KO 4712.	0043345 0043346 0043347	0043351 0043352 0043353	0043348 0043349 0043350	Front plate Plate Plate clear
Solder lug: KO 4712. KO 4712. KO 4712.	0043523 0043524 0043525	0043526 0043527 0043528	0043529 0043530 0043531	Front plate Plate Plate clear
without terminals: KO 4712:	0046187	0046188	0046189	
Outer dimensions:	22.5 x 73.5 x 118.2 mm			
Enclosure material:	PC-GF, base black front colour see table			
Temperature stability:				
complying with UL 746 B:	125 °C			
complying with Vicat				
ISO 306 Meth. B:	148 °C			
compl.with ISO 75-2 Meth. A:	138 °C			
	Meth. B: 144 °C			
Max. permitted power dissipation:	12 W for stand-alone enclosure at normal climate 23/50-1			ISO 554
Specific thermal resistance:	R _{th} = 8 K / W for stand-alone enclosure			
Flame retardancy complying with UL 94:	V-0; plate clear = V-2			
complying with IEC 60 707:	BH 2-30			
Number of terminals:	optionally 0 to 8			
Terminal material:	CuSn tin-plated			
max. cross section for connection:	each 1 x 4 mm ² solid		DIN 46 228-1/-2/-3/-4	
	each 1 x 2,5 mm ² stranded ferruled		DIN 46 228-1/-2/-3/-4	
	each 2 x 1,5 mm ² stranded ferruled		DIN 46 228-1/-2/-3/-4	
Insulation of wires length:	10 mm			
Max. cross resistance to printed circuit board:	10 mΩ			
Max. current carrying capacity:	16 A			
Wire fastening:	captive plus-minus terminal screws M3.5 box-terminals with self-raising wire protection			
Torque:	max. 0.8 Nm			
Connection on PCB:	solder pin: machine solderable solder pins solder tag: pin connection manuell			
Enclosure fastener:	Snap-on fastener on top hat rail or screw fixing M4 Raster 80			EN 50 022
Creepage current resistance:	CTI 175 ≙ insulating material III a			IEC 60 664-1
Air gap and creepage distance:	≧ 3.3 mm			IEC 60 664-1
Type of protection:	Enclosure IP 40 Terminals IP 20 contact protection complies with VBG 4			IEC 60 529 IEC 60 529
Print area:	22.5 x 43 mm (on front plate)			
without terminals:	17 x 65 mm (on front plate)			
Printed circuit board:	see printed circuit design			
Printed circuit board holder:	Guide ribs on all sides			
Net-weight:	85 g			
without terminals:	55 g			
Accessories:				
ET 4720-1-2:	2 clips for screw fixing			
KO 4721-7-1.24:	Blanking plug clear			

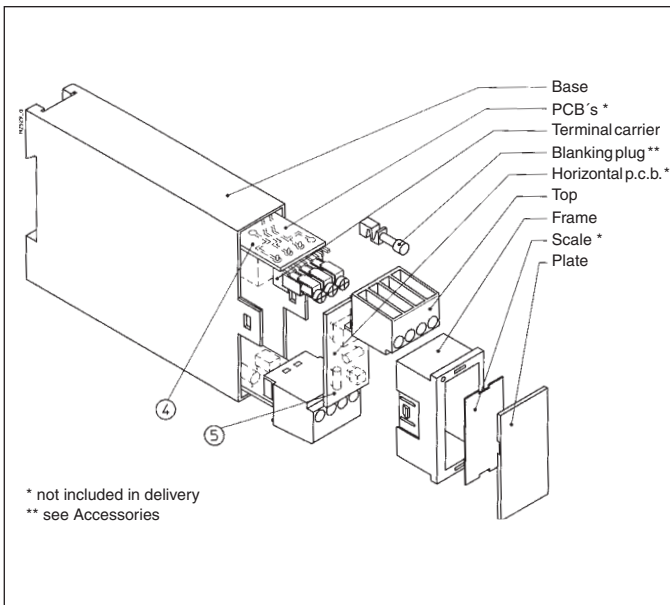
Enclosure variant with straight solder pin



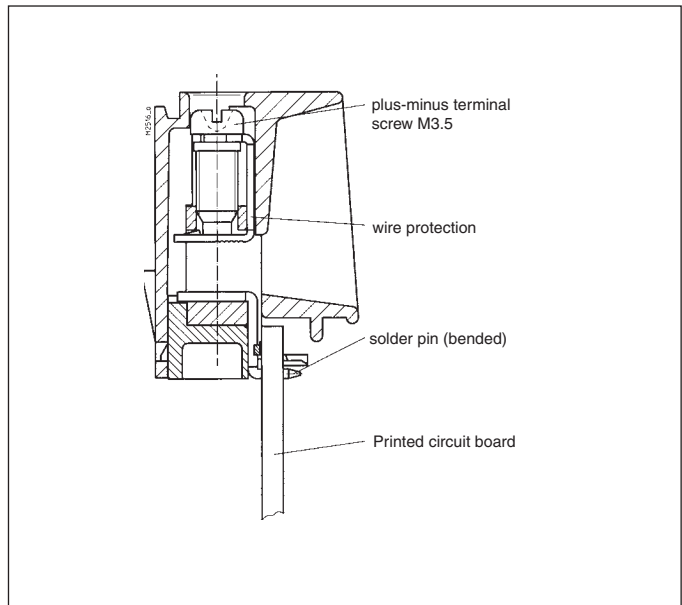
Box terminal with straight solder pin



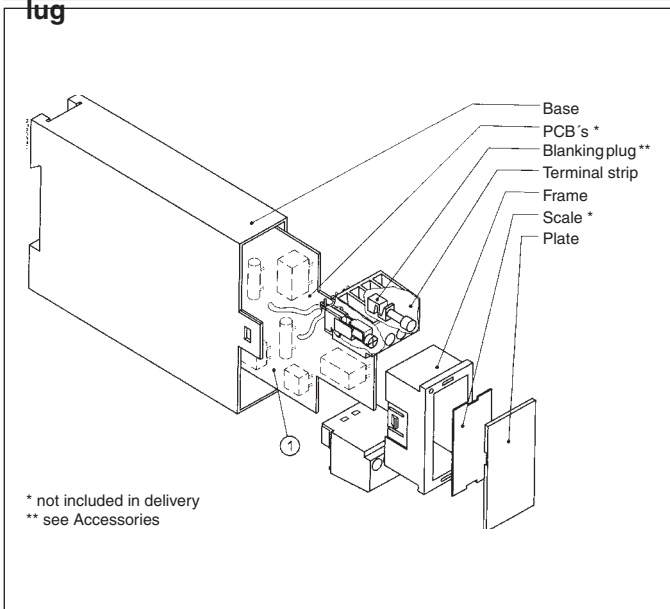
Enclosure variant with bended solder pin



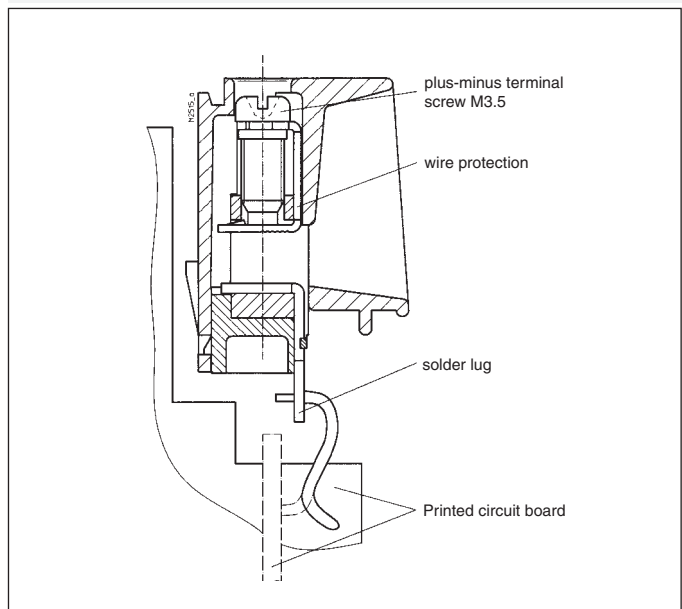
Box terminal with bendend solder pin



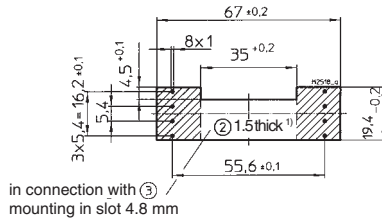
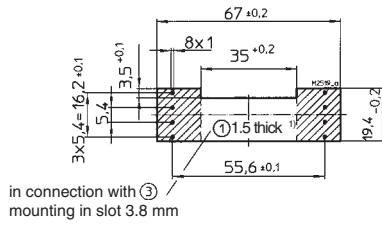
Enclosure variant with solder lug



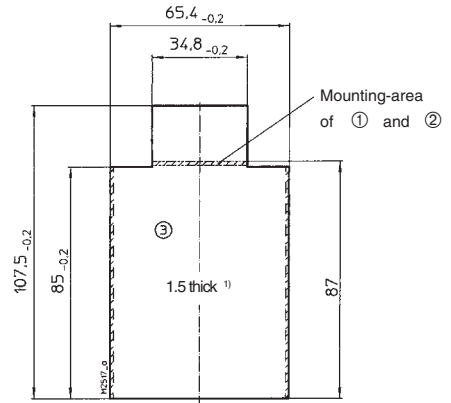
Box terminal with solder lug



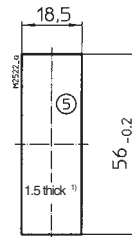
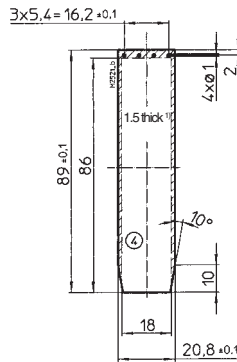
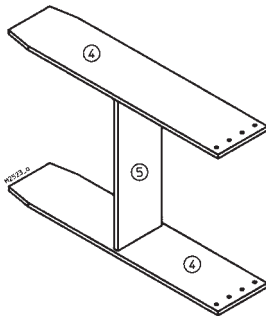
Printed circuit board design for solder pin straight



▨ Inhibited surface
1) Tolerance complying with IEC/EN 60249-2-4

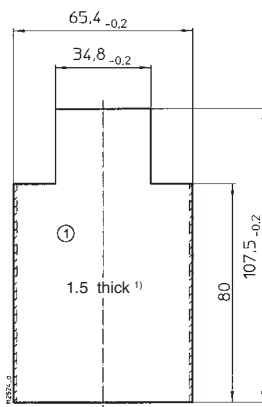


Printed circuit design for solder pin bended



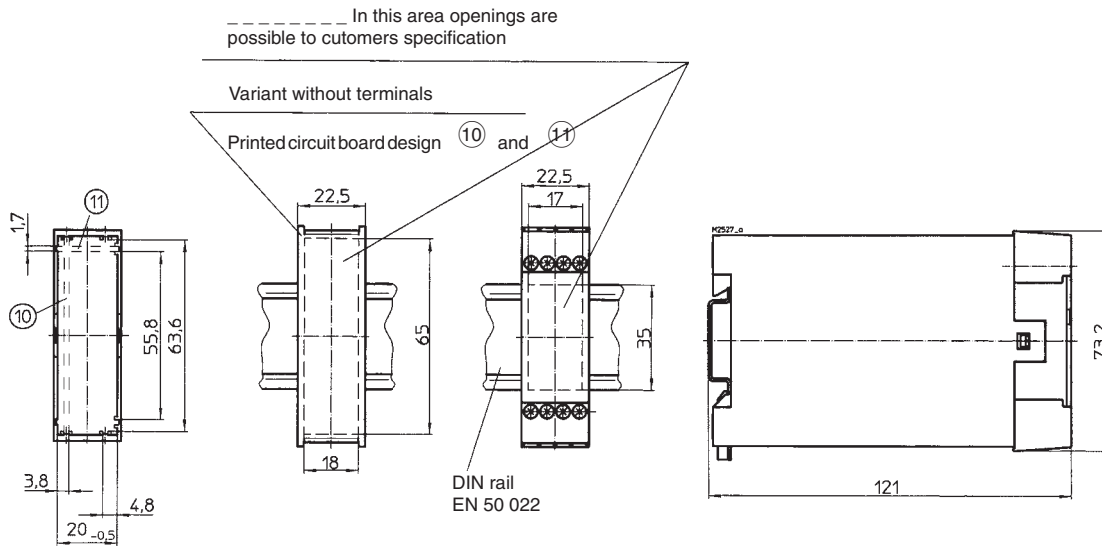
▨ Inhibited surface
1) Tolerance complying with IEC/EN 60249-2-4

Printed circuit board design for solder lug

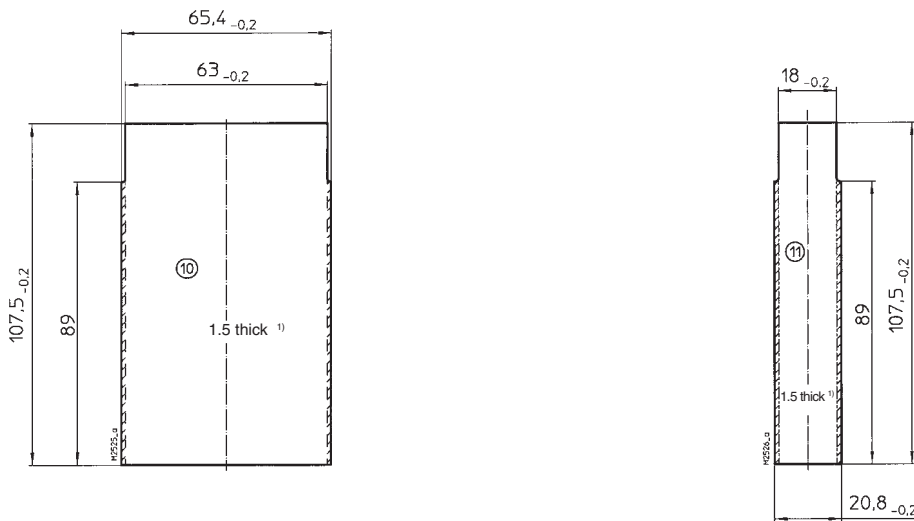


▨ Inhibited surface
1) Tolerance complying with IEC/EN 60249-2-4

Dimension drawings



Printed circuit board designs for enclosure without terminals



Inhibited surface

¹⁾ Tolerance complying with IEC/EN 60249-2-4

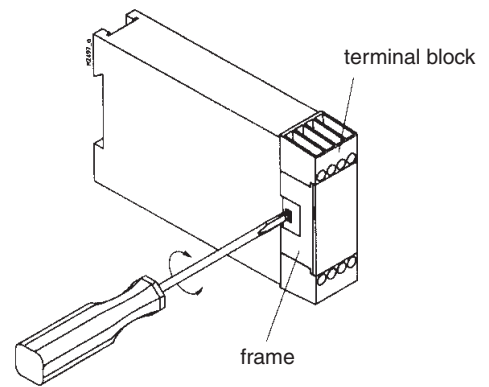
Notes on Housing Opening Installation

1. Tool

- for all functions use 0.8 x 4.0 or 0.8 x 4.5 screwdriver

2. Removing of frame and terminal blocks

- Insert a screwdriver in the side recesses of the hood (underneath)
- With light pressure, turn the screwdriver to the left or right.
- The snap-in lug of the frame disengages.
- Repeat disengaging process on opposite side.
- The terminal blocks can be removed.



3. Removing the plate

- Insert a screwdriver in the side recess of the plate
- Turn the screwdriver to the right or left.
- The plate disengages and can be removed.

