

Insulated Enclosure KO 4712

with box terminals
for machine soldering

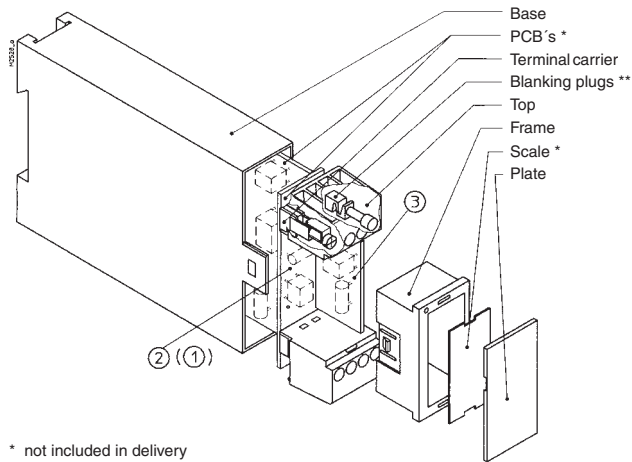


- Width 22.5 mm
- Max. 8 box-terminals with captive plus-minus screws
- without terminals as option
- machine solderable connections
- changeable plate as option
- can be used for EExi complying with EN 50 020

Technical data

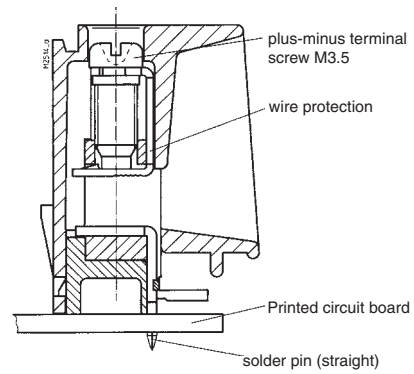
Order references: Front colour	beige	light grey RAL 7035	blue RAL 5015	Enclosure variant with
Solder pin straight: KO 4712. KO 4712. KO 4712.	0040076 0040077 0040078	0041461 0041462 0041463	0041464 0041465 0041466	Front plate Plate Plate clear
Solder pin bended: KO 4712. KO 4712. KO 4712.	0043345 0043346 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 each 1 x 2,5 mm ² stranded ferruled each 2 x 1,5 mm ² stranded ferruled			
	DIN 46 228-1/-2/-3/-4 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

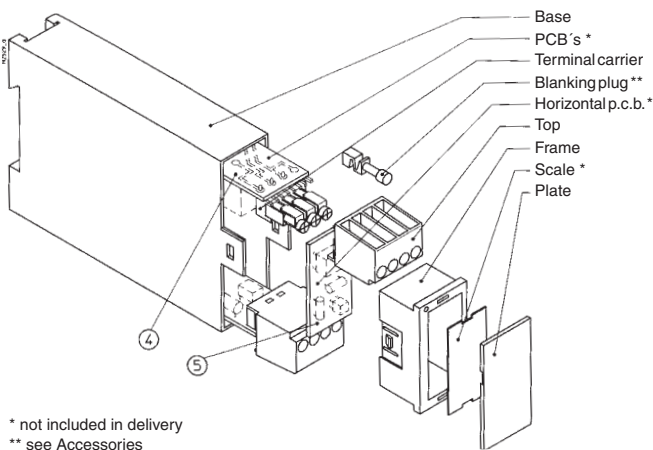


* not included in delivery
** see Accessories

Box terminal with straight solder pin

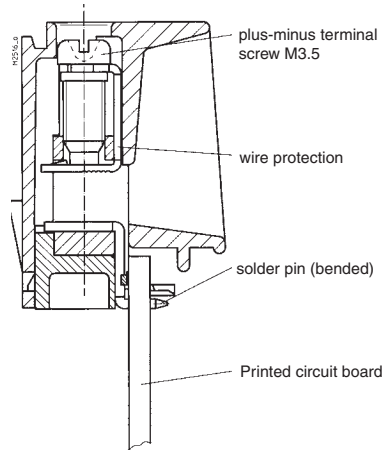


Enclosure variant with bended solder pin

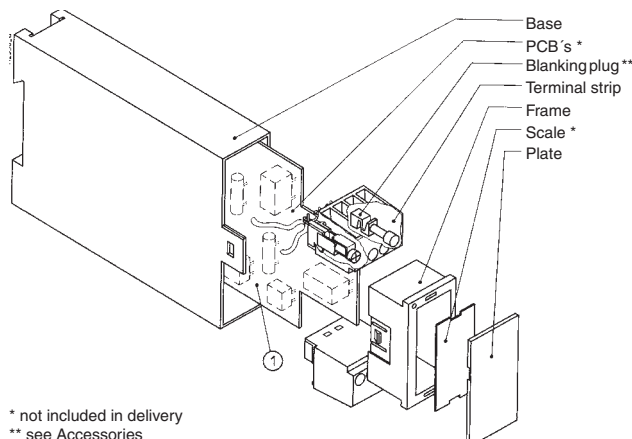


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Box terminal with bendend solder pin

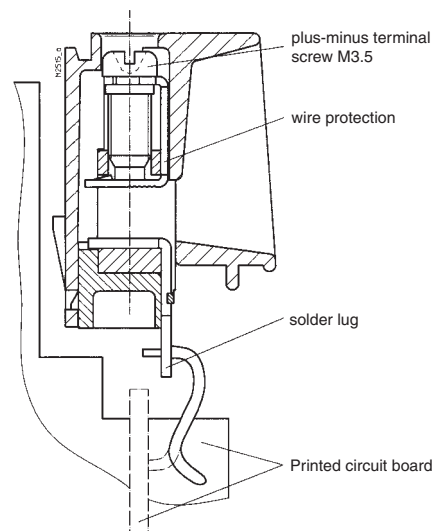


Enclosure variant with solder lug

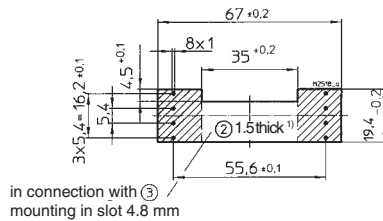
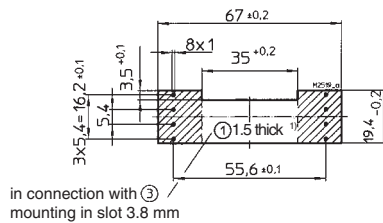


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Box terminal with solder lug

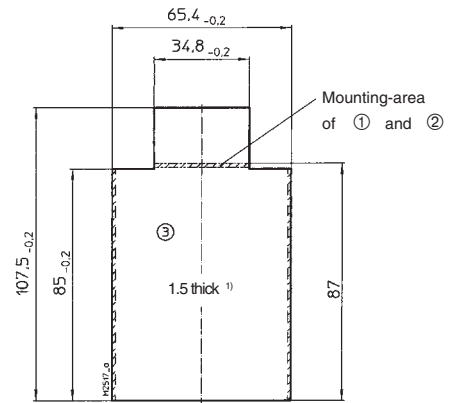


Printed circuit board design for solder pin straight

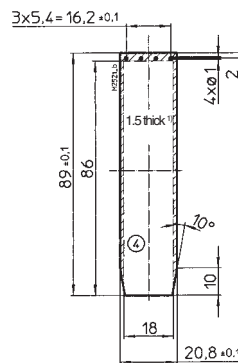
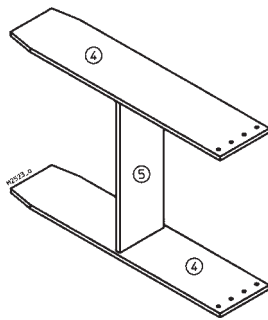


▨ Inhibited surface

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

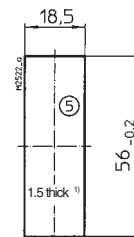


Printed circuit design for solder pin bended

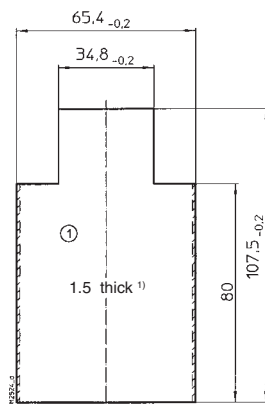


▨ Inhibited surface

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



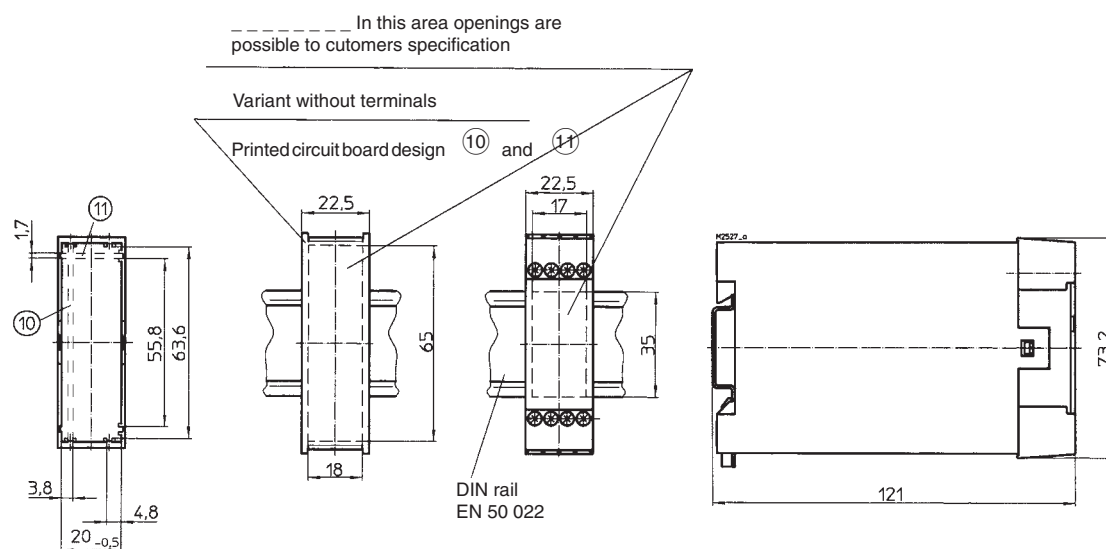
Printed circuit board design for solder lug



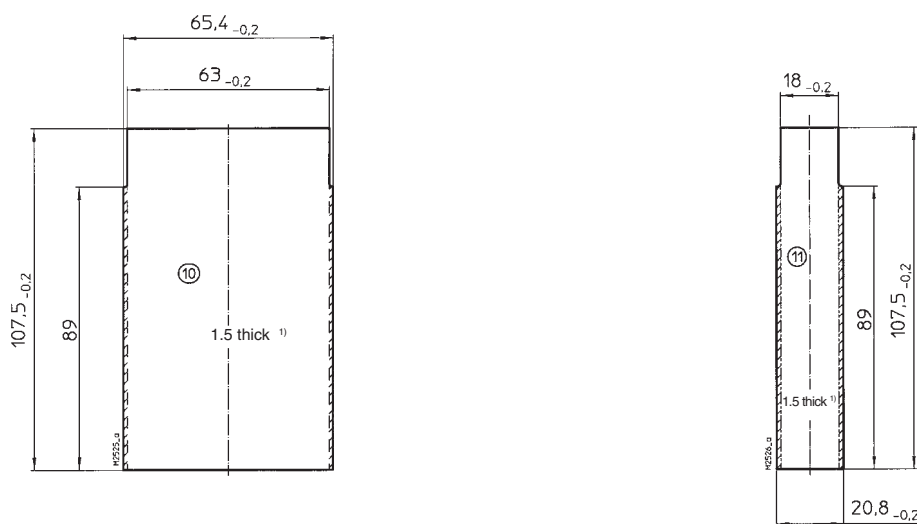
▨ Inhibited surface

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

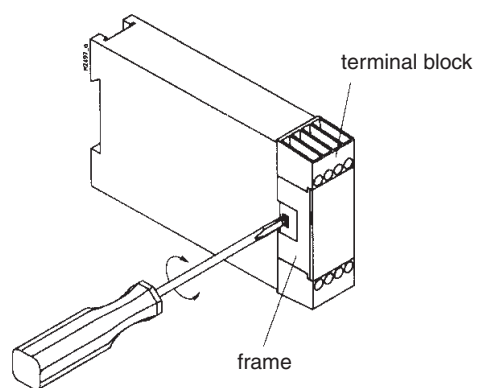
Notes on Housing Opening Installation

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.

