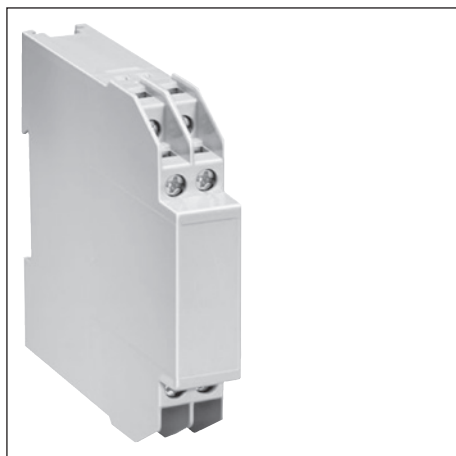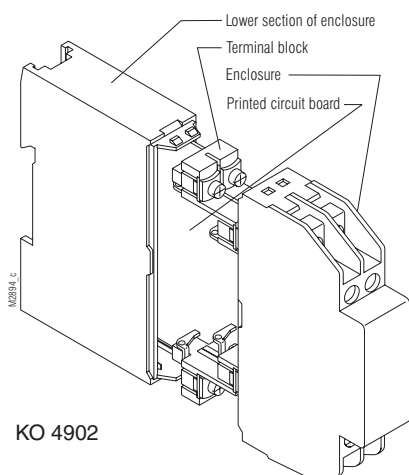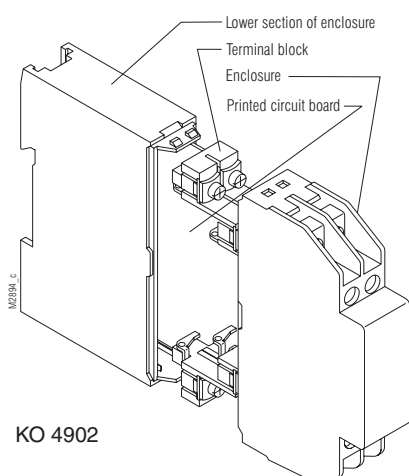# Insulated Enclosure KO 4902
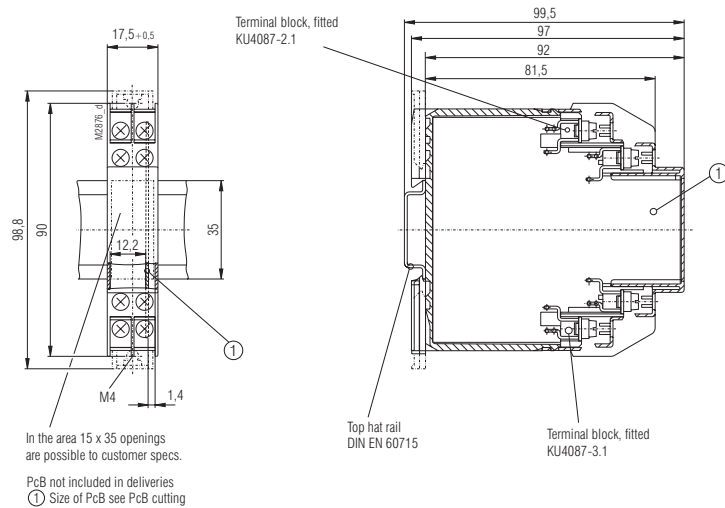## for surface mounting and mounting in cabinets, with flat terminals

- Width 17.5 mm
- Max. 8 plus-minus terminal screws with self-raising terminal washers
- Reliable connection of max. 2 wires even with different diameter
- Terminal blocks can be machine-soldered additional wire soldering is possible
- Housing supplied as single parts, terminals prefitted in terminal blocks

Lower section of enclosure
Terminal block
Enclosure
Printed circuit board

KO 4902

Lower section of enclosure
Terminal block
Enclosure
Printed circuit board

KO 4902

Technical data

Order reference:	KO 4902.0049365
Outer dimensions:	17.5 x 90 x 97 mm
Enclosure material:	PC-GF, light gray RAL 7035

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:	5.5 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: complying with IEC 60 707:	V-0 BH 2-30	
Number of terminals:	8, < 8 on request	
Terminal material:	Steel strip, tin-plated	
Max. cross section for connection:	2 x 2.5 mm² solid 2 x 1.5 mm² stranded ferruled min. ⌀ 0,1 mm solid	DIN 46 228-1/-2/-3/-4
Insulation of wires length:	9 - 10 mm	
Max. contact resistance to printed circuit board:	20 mΩ	
Max. current carrying capacity:	16 A, 40 A on request	
Wire fastening:	Captive plus-minus terminal screws (M3.5) with self-raising terminal washers Function complying with	IEC 60 999-1
Torque:	max. 0.8 Nm	
Inner connection:	Machine-solderable terminal pins for printed circuit board and soldering pin for strands	
Enclosure fastener:	1) Snap-on fastener on top hat rail 2) Screw fastening M4, grid 90 mm with second clip as accessory	EN 50 022
Creepage current resistance:	CTI 175 ≙ insulating material III a	IEC 60 664-1
Air gap and creepage distances Enclosure for vertical printed circuit board:	Air gap ≥ 4 mm Creepage distance ≥ 6.3 mm	IEC 60 664-1
Type of protection Enclosure: Terminal opening:	IP 40 IP 20 Contact protection complies with VBG 4	IEC 60 529
Print area:	17 x 44 mm	
Printed circuit board:	See Printed circuit board design	
Printed circuit board holder:	Guide ribs	
Component installation height for a vertical printed circuit board on compoment side: on soldering side:	≤ 12.2 mm or 11.6 mm ≤ 2.0 mm or 1.4 mm (see Printed circuit board design)	
Net weight:	72 g	

Accessories:

ET 4086-0-2.1	Second clip for screw fastening
KU 4089-0-2:	Blanking plug for enclosure base
KU 4089-3-4	Blanking plug for terminal block
KU 4087-1-1	Dummy terminal block for vertical PCB

Dimension drawings

Terminal block, fitted
KU4087-2.1

17,5 +0,5

M287/6_d

98,8
90
35
12,2

M4   1,4

In the area 15 x 35 openings
are possible to customer specs.

PcB not included in deliveries
① Size of PcB see PcB cutting

99,5
97
92
81,5

①

Top hat rail
DIN EN 60715

Terminal block, fitted
KU4087-3.1

Printed circuit board design

40
Solder side
2

$R1 ^{+0}_{-1}$

①   M287/7_d

71,8
55,2
52,6
36

$\varnothing 1,4 ^{+0,1}_{-0}$

$t = 1 ^{1)}$

1,5

$38,1 ^{+0}_{-0,2}$
$58,4 ^{+0}_{-0,3}$
$76,8 ^{+0}_{-0,3}$
$80,5 ^{+0}_{-0,3}$

R1,5

$38,7 ^{+0}_{-0,2}$
2,54

2,54
2,1

2,1

$45,2 ^{+0}_{-0,2}$

$60,2 ^{+0}_{-0,2}$

$88 ^{+0}_{-0,2}$

▨ Inhibited surface

◩ In this area max. component and pin hight 1,4 mm

1) Tolerance complying to IPC-4101 / 21
Gerneral tolerance PERFAG 2E