

K-LINE

K109PT

PT100 Converter

K-LINE

Temperature converters

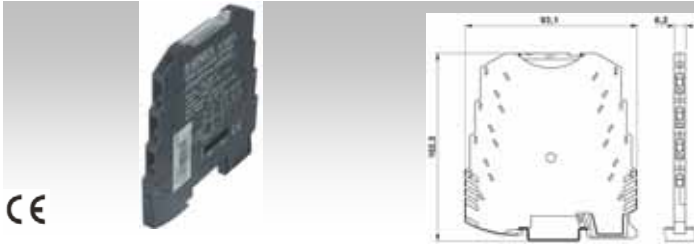
CE



- ▶ INPUT: PT100 at 2,3,4 wires with zero and span configurable by dip-switch
- ▶ OUTPUT: N.1 channel current 0/4..20, 20..4/0 mA or voltage 0..5/10, 10..0, 1..5 Vdc
- ▶ Galvanic isolation at 3-way.
- ▶ Spring-cage terminal block and/or DIN bus connection system
- ▶ Power bridging terminal - DIN rail bus connector
- ▶ Tiny dimensions (102,5 x 93,1 x 6,2 mm)
- ▶ Resolution @ 14 bit
- ▶ Precision class 0.1%

TECHNICAL DATA

K109PT - PT100 Converter



ORDER CODES

K109PT PT100 converter

Accessories

K-BUS Expandable power supply connector

K-SUPPLY Power Supply module with surge protection

GENERAL FEATURES

| | |
|----------------------------------|---|
| Power supply | 19,2...30 Vdc |
| Channels | N.1 |
| Accuracy | Error: 0,1% (max range) or (40 K / temp + 0.05) % (Measurement range) |
| Status indicators | Setting error Wrong connection Internal improper functioning |
| Galvanic Isolation | Power supply // input // output at 1500 Vac, digital |
| Hot swapping | Yes |
| Power consumption | 500 mW |
| A/D Converter | 14 bit |
| Current output protection | Approximately 25 mA |
| Security output | - 102.5% of full scale value, in case of over-range - 105% of full scale value in case of improper functioning |
| Humidity | 30..90% a +40°C (not condensing) |

| | |
|------------------------------|--|
| Design | Terminal housing for mounting on 35 mm DIN 46277 |
| Filter rejection | 50-60 Hz (settable) |
| DIP Switch | -Inputs signal setup -Output signal setup |
| Processing | Floating point 32 bit |
| Dimensions | 6,2 x 93,1 x 102,5 mm (w x h x d) |
| Weight | 50 g |
| Operating temperature | -20...+65 °C |
| Connections | Plug-in screw clamp terminal blocks, wires up to 2.5 mm ² |
| IP Protection | IP 20 |
| Standards | EN50081-2 EN50082-2 EN61010-1 EN60742 |
| Approvals | CE |

INPUT

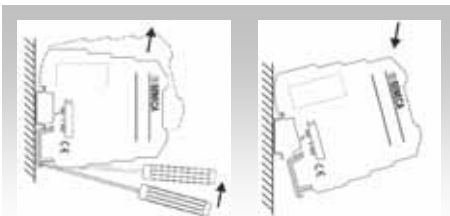
Type PT100 probe, EN 60751/A2 (ITS90)
Connection by 2, 3 or 4 wires
Current on sensor: < 900 uA
Cable resistance: Max. 20 Ohm per wire
Measurement Range: -150..650 °C
Min span : 50°C

OUTPUT

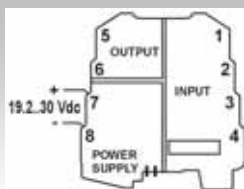
Type **Current:** 0..20 mA, 4..20 mA, 20..0 mA e 20..4 mA
Higher load resistance: 500 Ohm
Voltage: 0..5 Vdc, 1..5 Vdc, 0..10 Vdc and 10..0 Vdc
Lower load resistance: 2 KOhm

DIMENSIONS AND INSTALLATION

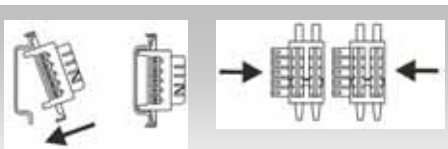
Inserting / Extracting module on DIN guide



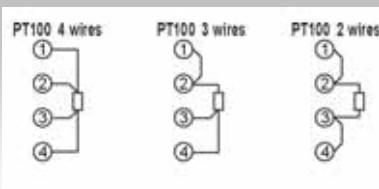
Power supply



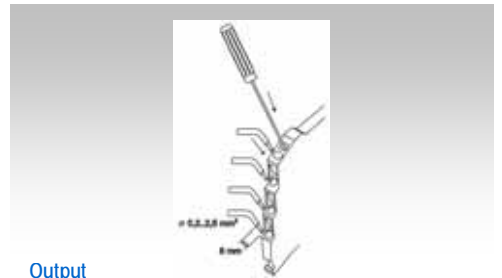
Expandable connector K-BUS



Input



Cage clamp connection



Output

