SENECAUK
Tel: 01943 602001 Fax: 01943 816796
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K-LINE

K120RTD

PT100, Ni100 / V-I loop powered Converter

K-LINE

Temperature converters

RoHS COMPLIANT

CE

- INPUT: PT100 probe (EN 60751/A2 – ITS90), - 200..+ 650 °C, Ni100 (-60..+250 °C) lower span 20°C
- OUTPUT: N.1 channel current 4..20, 20..4 mA
- Max Absorption 24 mA
- Measurement conversion 16 bit
- Power-Supply range 5..30 Vdc
- Tiny dimensions (6,2 x 93,1 x 102,5 mm)
- Precision class 0.1% or 0,1°C

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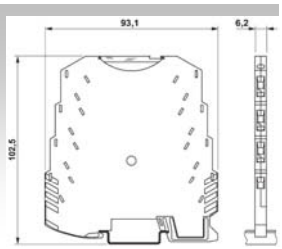
TECHNICAL DATA

K120RTD – PT100, Ni100 / V-I loop-powered Converter



ORDER CODES

K120RTD	PT100, Ni100 / V-I converter

GENERAL FEATURES

Power supply	19,2…30 Vdc
Channels	N.1 input, N.1 output
Thermal derivation	< 100 ppm/K
Status indicators	Anomaly, alarm
Power supply on terminals	Yes
Hot swapping	Yes
Max Power consumption	from 21 mA to 24 Vdc
Lowest Consumption (no load)	7,5 mA
Max Power	500 mW
A/D Conversion	14 bit
Rejection	50 – 60 Hz (programmable)

Filter	Supplementary to reading stabilization
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)
Case, Weight, Color	PBT, 45 g, black
Operating temperature	-20..+65 °C
Connections	Plug-in screw clamp terminal blocks, wires up to 2.5 mm^2
IP Protection	IP 20
Approvals	CE, EN 61010-1, EN 60742, EN 61000-6-4 EN 61000-6-2
Special Functions	• Programmable Fault and shearing • Insertable Filter

INPUT

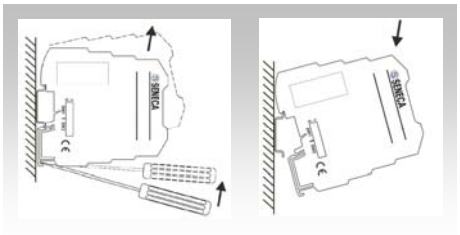
PT100 probe, (IEC 751 / EN 60751 – ITS90)
Connection by 2, 3 or 4 wires
Current on sensor: < 900 uA
Cable resistance: Max. 20 Ohm per wire
Measurement Range: -150..650 °C
Min span : 50°C

OUTPUT

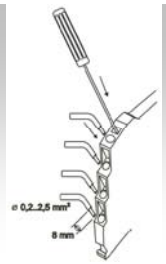
Type	Current: Range:4..20/20..4/0..20/20..0 mA Higher current for protection: 25 mA Higher load resistance: 500 Ohm Voltage: Range: 0..10/10..0/0..5/1..5 V Lower load resistance: 2 Kohm Higher voltage available: 12V
Answer time	< 50 ms (without filter); < 200 ms (with filter)

DIMENSIONS AND INSTALLATION

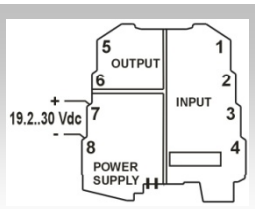
Inserting / Extracting module on DIN guide



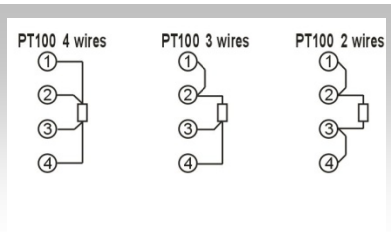
Cage clamp connection



Power supply



Input



Output