Type

Rail mounted temperature transducer

LXT - 81U - D

Features

- Resistace input - Pt100, Ni100, Cu100, Pt1000, Ω, potentiometer.
- Voltage input - B, J, K, N, R, S, mV
- Current output 0...5 mA, 0...20 mA, 4...20 mA.
- Voltage output 0...5 V, 0...10 V.
- Galvanic separation input/output.
- Sensor break signalization.
- All sensors linearization.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Special versions on request.

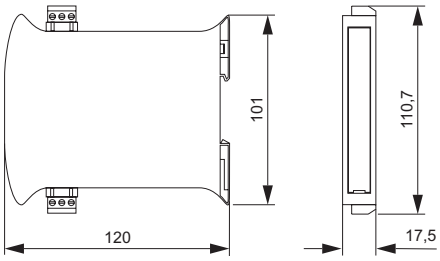
3 years warranty

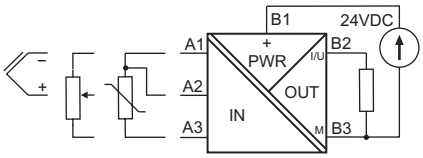
CE

Description

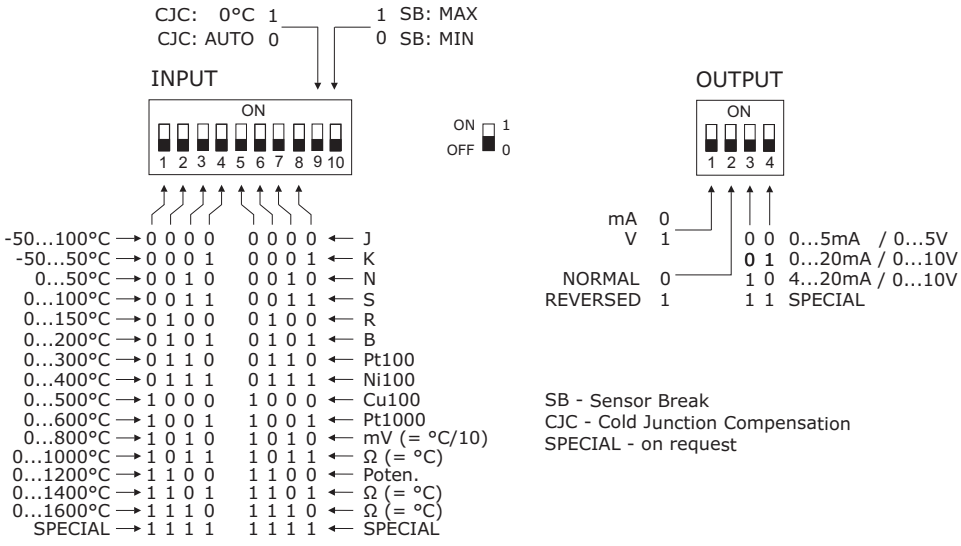
The LXT-81U-D transducer converts temperature from an input sensor to the output signal 0...5mA, 0...20mA, 4...20mA, 0...5V or 0...10V with galvanic separation between an input sensor and the output.
A device assures cold junction compensation (if thermocouple is connected as input signal) or it makes input wire resitance compensation (if resistive element is connected). Each output signal may be inverted.
Front jumpers allow for easy and comfortable setting all parameters like sensor, operating range, compensation, output signal and sensor break signalization.
There is possibility to deliver device for non-standard signals on demand.

Dimm. / Connect.





Programming



SB - Sensor Break
CJC - Cold Junction Compensation
SPECIAL - on request

Revision : ENG1V04

Specifications

Input

Pt100, Ni100, Cu100, Pt1000, resistance, potentiometer	0...1600Ω
J, K, N, S, R, B, voltage	-5...140mV
sensor current	~ 0.35mA
input line resistance	≤ 10Ω/wire
input line resistance variation influence	≤ 0.005%/Ω
voltage source internal resistance	≤ 1kΩ
voltage source internal resistance variation infl.	≤ 0.1%/kΩ

Output

output signal	0...20mA, 0...10V (may be inverted)
- subranges	0...5mA, 4...20mA, 0...5V (may be inverted)
load resistance	
- current output	≤ 500Ω
- voltage output	≥ 10kΩ
load variation influeance	≤ 0.05%
sensor break indication	0 or 22mA / 0 or 11V

General data

basic accuracy (larger value)	≤ 0.1%
- resistance input / accuracy (range) /	0.1Ω (200Ω); 0.13Ω (400Ω); 0.16Ω (800Ω); 0.2Ω (1600Ω)
- voltage input / accuracy (range) /	10μV (35mV); 13μV (75mV); 16μV (150mV)
response time (10...90%)	≤ 1s
cold junction compensation (CJC)	≤ 0.5°C
galvanic separation (test)	1.5kV AC, 50Hz, 1min
warm up time	15min

Power supply

supply voltage	
- nominal	24V DC
- supply voltage range	20...30V DC
supply current	≤ 35mA
supply voltage variation influence	≤ 0.03%

Temperature

operating temperature	0...70°C
temperature influence	≤ 0.01%/°C
temperature influence for CJC	≤ 0.1%/°C

Environment conditions

storage temperature	-20...85°C
humidity (non-condensing)	≤ 90%
working position	any

Housing

material	molded PC/ABS
protection housing/terminals	IP20/IP20
wire connections	plugs with screw terminals 1.5mm^2
dimensions	see drawings on the first page
weight	~ 100g

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