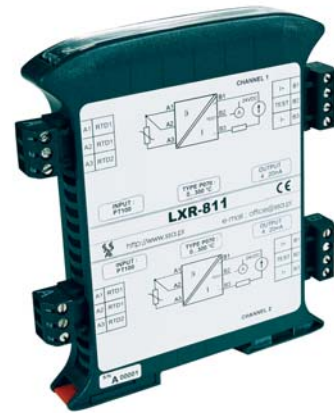
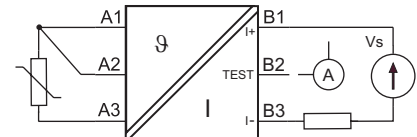
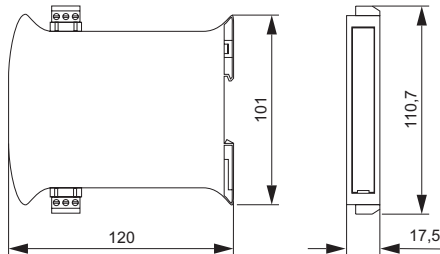


- Resistance input - Pt100, Ni100
- Current output 4...20 mA (current loop).
- Galvanic separation input/output.
- Sensor break signalization.
- Pt100 linearization.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Single or dual independent channels.
- Special versions on request.

3 years warranty



The LXR-811 transducer converts temperature from the input sensor Pt100 / Ni100 to the output signal 4...20mA. A device works as a current loop regulator with galvanic separation between the input sensor and the output. The LXR-811 is self powered from the current loop. A device assures input wire resistance compensation for 3 wires connection. The LXR-811 can operate with almost any resistive sensor but only for Pt100 (Ptxxx) is linearized. There is possibility to deliver device for non-standard signals on demand.



Order LXR-811 using the following code:

Channel 1 ——— Channel 2

LXR - 811 - □ □ □ □ - □ □ □ □

Input sensor	Pt100	P		
	Ni100	N		
Input span Pt100 and Ni100	-50... 50°C	0	1	
	0... 50°C	0	2	
	0...100°C	0	3	
	0...150°C	0	4	
Input span Pt100 only	0...200°C	0	5	
	0...250°C	0	6	
	0...300°C	0	7	
	0...400°C	0	8	
	0...500°C	0	9	
	0...600°C	1	0	
Sensor break signalization	0...800°C	1	1	
	Min			0
	Max			1

Notes :

1. Single channel version - specify only channel 1, eg. *LXR - 811 - P030*.
2. Order code for channel 2 specify as per channel 1.

**Input**

- Pt100, Ni100 -50...800°C
- sensor current ~ 0.5mA
- input line resistance ≤ 100Ω/wire
- input line resistance variation influence ≤ 0.005%/Ω

**Output**

- output signal 4...20mA
- permissible load resistance (RI) see load diagram
- load variation influence ≤ 0.03%
- sensor break indication
  - max 22...30mA
  - min ≤ 3.6mA

**General data**

- basic accuracy ≤ 0.1%
  - span ≥ 600°C ≤ 0.2%
- response time (10...90%) ≤ 0.2s
- galvanic separation (test) 1.5kV AC, 50Hz, 1min
- warm up time 15min

**Power supply**

- supply voltage (Vs) 9...30V DC
- supply voltage variation influence ≤ 0.03%
- permissible ripple ≤ 4V<sub>pp</sub>, 50Hz

**Temperature**

- operating temperature 0...70°C
- temperature influence ≤ 0.005%/°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 headers with screw terminals 1.5mm<sup>2</sup>
- dimensions see drawings on the first page
- weight (single / dual channel) ~ 100g / 140g

**Diagrams**

