Type

Rail mounted analog isolator

LXA - U11

Features

- Jumper selected input signal.
- Current output 4...20 mA (current loop).
- Galvanic separation input/output.
- Signal conversion between input and output.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Special versions on request.

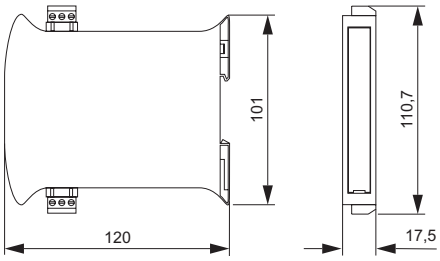
3 years warranty

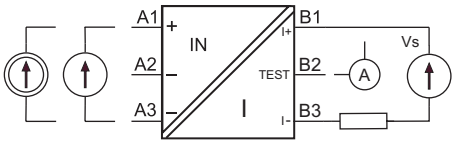
CE

Description

The LXA-U11 universal analog isolator is dedicated for separation an analog input signal from the output line 4...20mA. A device works as a current loop regulator with galvanic separation between input signal and output. The LXA-U11 is self powered from the current loop.
Front jumpers allow for easy and comfortable setting input signal. User may to choose one of the current signal (0...5 mA, 0...20 mA, 4...20 mA) or voltage (0...10V). Front jumpers are covered by transparent protection cover. There is possibility to deliver device for non-standard signals on demand.

Dimm. / Connect.





Programming

The input signal is programmable via DIP switch located on the front panel.

1 0 1 0 ← 4...20 mA
0 0 0 1 ← 0...20 mA
0 1 0 0 ← 0...5 mA
0 0 0 0 ← 0...10 V

It is recomended to set input range before installation.

Ordering

Order LXA-U11 using the following code:

LXA - U11

Revision : ENG1V07

Specifications

Input

input span (jumper selected)	0...5mA, 0...20mA, 4...20mA, 0...10V
input resistance	
- current input	≤ 100Ω
- voltage input	≥ 500kΩ
overload	≤ 200% input span

Output

output signal	4...20mA
permissible load resistance (Rl)	see load diagram
load variation influeance	≤ 0.03%

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basic accuracy	≤ 0.15%
response time (10..90%)	≤ 0.2 s
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	≤ $4V_{pp}$, 50Hz

Temperature

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

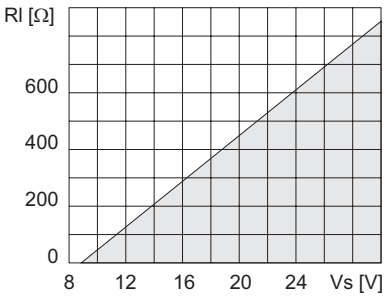
Environment conditions

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

Diagrams



Rl=f(Vs)

Design and specification subject to change without notice.

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