**Rail mounted analog isolator**

**LXL - X1U**

- Input voltages up to 500V AC or input current up to 5A AC.
- Jumper selected output signal.
- Galvanic separation input/output/supply.
- True RMS measurements.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Special versions on request.

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**Description**

The LXL-X1X analog isolator is dedicated for separation an AC voltage or AC current input signals from the output line. If higher current span is needed, current transformer can be used.

A device assures full 3 ways galvanic separation between input, output and supply lines. Front jumpers allow easy and comfortable setting the output signal. User may to choose the current signal 0...20mA or 4...20mA or voltage 0...10V.

A high precision is achieved by True RMS converter, which allows measurement of distorted signals (high k shape factor).

There is possibility to deliver device for non-standard signals on demand.

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**Dimensions / Connect.**

- **Order LXL-X1X using the following code:**
  - The output signal is programmable via DIP switch located on the front panel.

<table>
<thead>
<tr>
<th>Input type</th>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>0...120V</td>
<td>0...1A</td>
</tr>
<tr>
<td>0...250V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...400V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...450V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...500V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...600V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...700V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...800V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...900V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...1000V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0...1A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AC voltage range**

<table>
<thead>
<tr>
<th>AC voltage range</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>0...10V</td>
<td>1 0 0 1</td>
</tr>
<tr>
<td>0...20mA</td>
<td>0 0 0 0</td>
</tr>
<tr>
<td>0...40mA</td>
<td>0 1 1 0</td>
</tr>
</tbody>
</table>

It is recommended to set output before installation.
## Specifications

### Input
- **AC input range (factory preset)**
  - voltage input
  - current input
- **input power consumption**
  - voltage input
  - current input
- **frequency range**
- **overload**
  - ≤ 0.01 VA
  - ≤ 1.3 VA
  - 35...200 Hz
  - ≤ 150% input span (≤ 120% for 0...5A)

### Output
- **output signal (jumper selected)**
  - ≤ 500 Ω
  - ≥ 1 kΩ
  - ≤ 0.05%

### Dane ogólne
- **basic accuracy**
  - ≤ 0.5%
  - ≥ 1%
  - ≤ 1%
- **response time (10...90%)**
- **galvanic separation (test)**
- **warm up time**
  - 3kV AC, 50Hz, 1min
  - 15min

### Power supply
- **supply voltage**
  - nominal
  - ≤ 24V DC
  - ≤ 50mA
  - ≤ 0.05%
- **supply voltage range**
  - 20...30V DC

### Temperature
- **operating temperature**
  - voltage input
  - current input
- **temperature influence**
  - 0...70°C
  - 0...50°C
  - ≤ 0.02%/°C

### Environment conditions
- **storage temperature**
- **humidity (non-condensing)**
- **working position**
  - voltage input
  - current input
  - vertical
  - vertical with min. 30mm distance from other devices

### Housing
- **material**
- **protection housing/terminals**
- **wire connections**
- **dimensions**
- **weight**
  - molded PC/ABS
  - IP20/IP20
  - plugs with screw terminals 1.5mm²
  - see drawings on the first page
  - ~ 100g