

*ISO*PAQ-11L

*ISO*PAQ-12L

# 1- & 2-channel Loop Powered Isolators for Separation of 0(4)-20 mA Signals

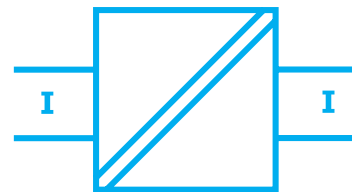


**IsoPAQ-11L and IsoPAQ-12L are 1- and 2-channel loop powered isolators used for electrical isolation of 0(4)-20 mA signals to avoid measurement errors due to different voltage potentials or ground loops in an instrument installation.**

**The 2-channel version, IsoPAQ-12L offers a very cost effective alternative combined with a high-density mounting.**

**The isolators need no power supply, which contributes to reduced installation costs compared to isolation transmitters.**

**The high reliability ensures a safe system operation and low maintenance costs.**



- **Input to output galvanic isolation**  
Protection against erroneous measurements due to parasitic voltages or ground loops
- **1- and 2-channel versions**  
Allows for optimal cost efficiency
- **No power supply required**  
Reduced wiring saves installation costs
- **Low voltage drop**  
Input voltage drop of less than 2 V reduces impact on the primary current loop

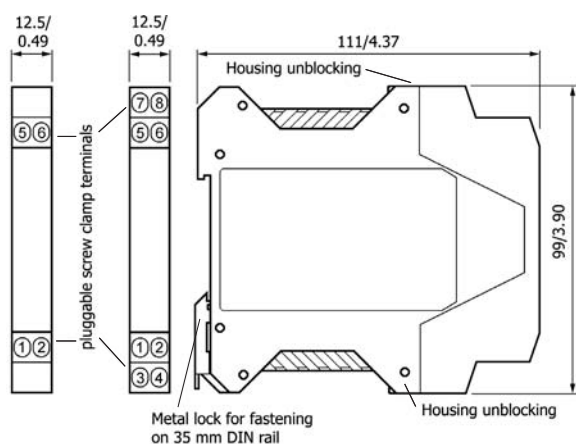
- **High-density DIN-rail mounting**  
12.5 mm (0.5") housing combined with very low self heating allows for high density mounting
- **High accuracy**  
Negligible additional measurement errors in the loop
- **Plug-in screw terminals**  
Simplifies installation and maintenance

## Specifications: IsoPAQ-11L/-12L

<b>Input</b>	
Input signal	0(4)-20 mA / max. 30 V
Operating current	< 20 $\mu$ A
Voltage drop	< 2 V
Overload	$\leq$ 100 mA, $\leq$ 30 V
<b>Output</b>	
Output signal	0(4)-20 mA / max. 28 V
Response time (10 to 90 % of end value)	2 ms @ 250 $\Omega$ load / 6 ms @ 750 $\Omega$ load
Ripple	< 0.07 % of measured value, ~100 kHz
<b>General data</b>	
Transmission error	$\pm$ 0.1 % of end value
Load error	$\pm$ 0.03 % of measured value / 100 $\Omega$ load
Temperature coefficient <sup>1)</sup>	$\pm$ 0.0015 %/K of measured value / 100 $\Omega$ load
Test voltage	1.5 kV, 50 Hz <span style="float: right;">Between all circuits</span>
Ambient temperature	Operation <span style="float: right;">-20 to +70 °C (-4 to +158 °F)</span> Transport and storage <span style="float: right;">-35 to +85 °C (-31 to +185 °F)</span>
EMC <sup>2)</sup>	EN 61326-1
Construction	12.5 mm (0.5") housing, protection type: IP 20
Connection	$\leq$ 2.5 mm <sup>2</sup> , AWG 14
Weight	Approx. 100 g

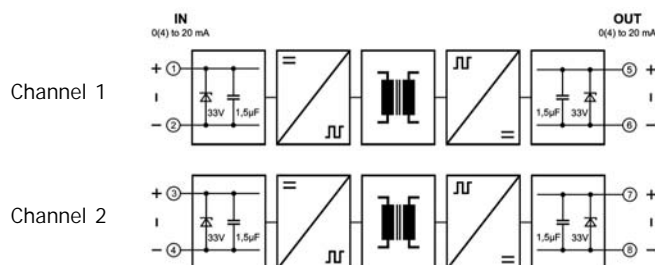
- 1) Average TC in specified operating temperature range  
2) Minor deviations possible during interference

### Dimensions



mm/inch

### Block diagram/Connections



### Ordering information

Product	Input / Output	Part No.
IsoPAQ-11L	1-channel, 0(4)-20 mA	70ISL11001
IsoPAQ-12L	2-channel, 0(4)-20 mA	70ISL12001