

IsoPAQ-11L/-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 accuracy** Negligible additional measurement errors in the loop
- High-density DIN-rail mounting 12.5 mm (0.5") housing combined with very low self heating allows for high density mounting
- Plug-in screw terminals Simplifies installation and maintenance

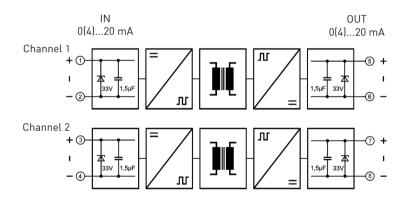


Specifications: IsoPAQ-11L/-12L

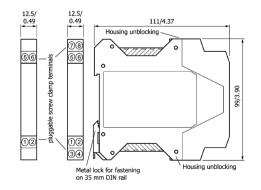
Input			
Input signal	0(4)-20 mA/max. 30 V		
Operating current	< 20 μΑ		
Voltage drop	< 2 V		
Overload	≤ 100 mA, ≤ 30 V		
Output			
Output signal	0(4)-20 mA/max. 28 V		
Response time	2 ms ld 250 Ω load/6 ms ld 750 Ω load		
(10 to 90 % of end value)			
Ripple	< 0.07 % of measured value, ~100 kHz		
General data			
Transmission error	± 0.1 % of end value		
Load error	\pm 0.03 % of measured value/100 Ω load		
Temperature coefficient ¹⁾	\pm 0.0015 %/K of measured value/100 Ω load		
Test voltage	1.5 kV, 50 Hz	Between all circuits	
Ambient temperature	Operation	-20 to +70 °C (-4 to +158 °F)	
	Transport and storage	-35 to +85 °C (-31 to +185 °F)	
EMC ²	EN 61326-1		
Construction	12.5 mm (0.5") housing, protection class: IP20		
Connection	≤ 2.5 mm ² , AWG 14		
Weight	Approx. 100 g		

Average TC in specified operating temperature range
Minor deviations possible during interference

Block diagram/Connections



Dimensions



mm/inch

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	