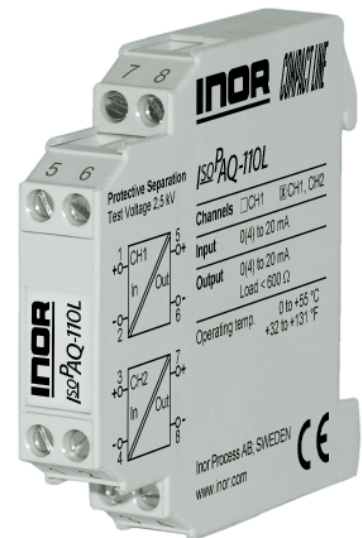


**ISO PAQ-110L**

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

*COMPACT LINE is a line of very compact and cost-optimized Isolators, Transmitter Repeaters and Isolating Transmitters within the IsoPAQ family.*

*The small dimensions - only 60 mm deep and 11.2 mm wide – and the favorable pricing allow for space saving and economic installations.*



**COMPACT LINE**

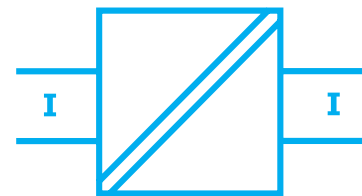


**IsoPAQ-110L is a loop powered isolator, available in 1- and 2-channel versions. It is used for electrical isolation of 0(4)-20 mA signals to avoid measurement errors due to different voltage potentials or ground loops in an instrument installation.**

**The 2-channel version, IsoPAQ-110L offers a very cost effective alternative combined with a high-density mounting.**

**The isolator 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
- **Fixed ranges**  
Ready to use without any settings

- **Compact DIN-rail mounting**  
11.2 mm (0.44”) housing combined with very low self heating allows for high density mounting. With a depth of only 60 mm, compact standard boxes can be used.
- **Protective Separation**  
The design and high isolation level (2.5 kV) provides protection for service personnel and downstream devices against impermissibly high voltage
- **High accuracy**  
Negligible additional measurement errors in the loop

## Specifications: IsoPAQ-110L

### Input

Input signal	0(4)-20 mA
Operating current	< 100 $\mu$ A
Voltage drop	< 3 V
Overload	$\leq$ 50 mA, $\leq$ 15 V

### Output

Output signal	0(4)-20 mA
Load	< 600 $\Omega$
Response time (10 to 90 % of end value)	5 ms @ 500 $\Omega$ load
Ripple	< 10 mV <sub>rms</sub>

### General data

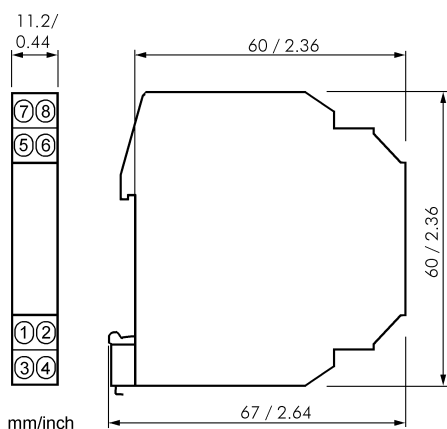
Transmission error	$\pm$ 0.1 % of end value
Load error	$\pm$ 0.05 % of measured value / 100 $\Omega$ load
Temperature coefficient <sup>1)</sup>	$\pm$ 0.004 %/K of measured value / 100 $\Omega$ load
Test voltage	2.5 kV, 50 Hz Between all circuits
Working voltage <sup>2)</sup> (Basic Insulation)	600 VAC/DC for overvoltage category II and contamination class 2 acc. to EN 61010 part 1
Protection against dangerous body currents <sup>2)</sup>	Protective separation acc. to EN 61140 by reinforced insulation acc. to EN 61010 part 1 up to 300 V AC/DC for overvoltage category II and contamination class 2 between all circuits.
Ambient temperature	Operation 0 to +55 $^{\circ}$ C (32 to +131 $^{\circ}$ F) Transport and storage -25 to +80 $^{\circ}$ C (-13 to +176 $^{\circ}$ F)
EMC <sup>3)</sup>	EN 61326-1
Construction	11.2 mm (0.44") housing, protection type: IP 20
Connection	$\leq$ 2.5 mm <sup>2</sup> , AWG 14
Weight	Approx. 50 g

1) Average TC in specified operating temperature range

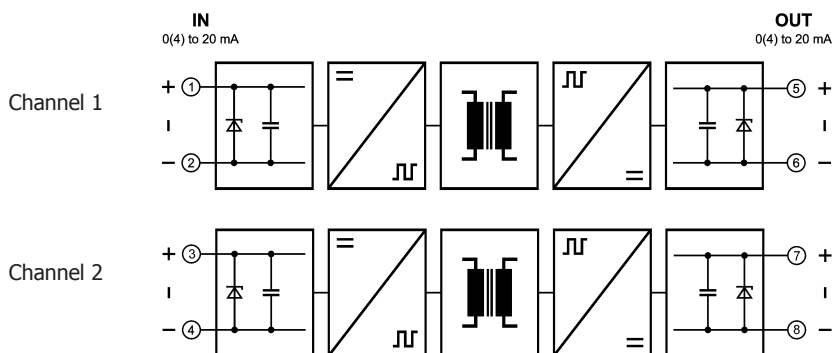
2) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.

3) Minor deviations possible during interference

### Dimensions



### Block diagram/Connections



### Ordering information

Product	Input / Output	Part No.
IsoPAQ-110L	1-channel, 0(4)-20 mA	70ISC11001
IsoPAQ-110L	2-channel, 0(4)-20 mA	70ISC11002