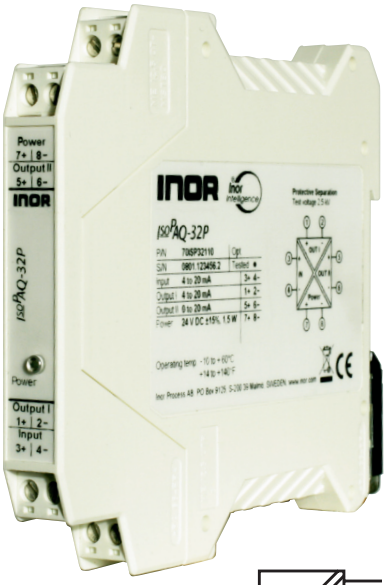
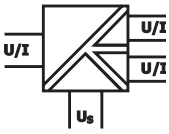
Isolation Signal Splitter with Double Outputs for mA and V Signals





The Isolation Signal Splitter IsoPAQ-32P is used for isolation and conversion of 0-20 mA, 4-20 mA, 0-5 V and 0-10 V standard signals.

The input signal and the two output signals can be selected in any combination. The signal combination is decided by the Part No.

The high accuracy and reliability and the Protective Separation are further features, which ensure a safe system operation.

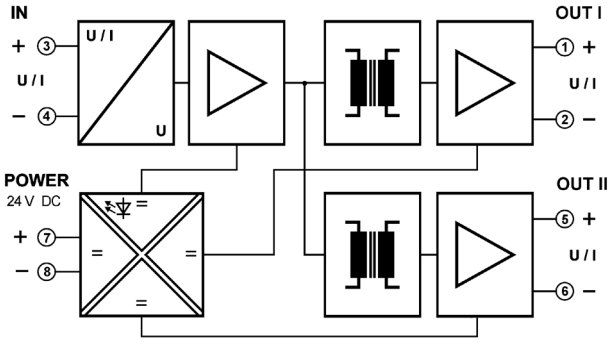
- **Fixed ranges**
  Ready to use without any settings or calibrations
- **Protective Separation acc. to EN 61140**
  The design and high isolation level (2.5 kV) provide protection for service personnel and downstream devices against impermissibly high voltage
- **High accuracy**
  Negligible additional measurement errors in the loop
- **4-port isolation**
  Protection against erroneous measurements due to parasitic voltages or ground loops
- **High-density DIN-rail mounting**
  12.5 mm (0.5") housing combined with low self heating allows for high density mounting
- **Plug-in screw terminals**
  Simplifies installation and maintenance
- **Excellent reliability**
  Low self heating provides long-term reliability and stability

Specifications: IsoPAQ-32P

Input					
Input signal	0-20 mA	4-20 mA	0-5 V	0-10 V	Factory set as ordered
Input resistance	Current input	30 Ω			
	Voltage input	500 kΩ			
Overload	Current input	≤ 200 mA			
	Voltage input	≤ 30 V			
Output I & Output II					
Output signal	0-20 mA	4-20 mA	0-5 V	0-10 V	Factory set as ordered
Load	Current output	≤ 500 Ω			
	Voltage output	≥ 2 kΩ			
Offset	< 20 µA, 10 mV				
Ripple	< 0.1 % of end value, ~150 kHz				
General Data					
Transmission error	< 0.1 % of end value				
Temperature coefficient[1]	< 0.015 %/K of end value				
Response time	< 5 ms				
Test voltage	2.5 kV, 50 Hz	Input / Output I / Output II / Power supply			
Working voltage[2] (Basic insulation)	Up to 600 VAC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010 part 1 between all circuits.				
Protection against electrical shock[2]	Protective separation acc. to EN 61140 by reinforced insulation acc. to EN 61010 part 1 up to 300 VAC/DC for overvoltage category II and pollution degree 2 between all circuits.				
Ambient temperature	Operation	-10 to +60 °C (+14 to +140 °F)			
	Transport and storage	-20 to +80 °C (-4 to +176 °F)			
Power supply	24 V DC (working range 20 to 30 VDC), approx. 1.5 W				
EMC[3]	EN 61326-1				
Construction	12.5 mm (0.5") housing, protection class: IP20				
Connection	≤ 2.5 mm², AWG 14				
Weight	Approx. 100 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

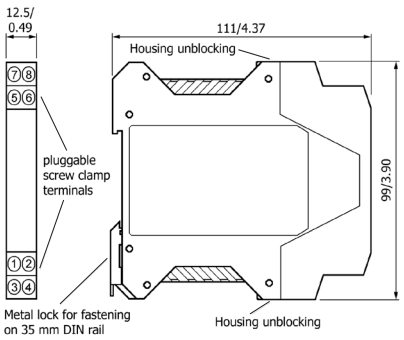
Block diagram/Connections



Ordering information

Product		*Part No.*
IsoPAQ-32P		70ISP32XXX
Input	0-20 mA	0
	4-20 mA	1
	0-5 V	2
	0-10 V	3
Output I	0-20 mA	0
	4-20 mA	1
	0-5 V	2
	0-10 V	3
Output II	0-20 mA	0
	4-20 mA	1
	0-5 V	2
	0-10 V	3

Dimensions



mm/inch