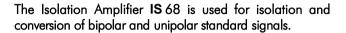


Bipolar Isolation Amplifier IS 68

Isolation and Conversion of Fixed Range Bipolar and Unipolar Standard Signals

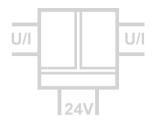


For applications where one signal combination only is used, the Isolation Amplifier IS 68 offers a cost-effective alternative

A cross-connector for the auxiliary power supply ensures fast and easy installation. The slim housing with 11.2 mm width saves significant space on the DIN-rail. If required a measuring range compensation can be performed at the Zero/Scan potentiometers behind the front cover.

Analog signal processing guarantees precise measured values with short response times and outstanding signal reproduction at the output. Protective Separation and the 24 V AC/DC power supply make the IS 68 universally applicable for all measurement and industrial applications, as well as for building automation.





Cost optimized design

Economical separation for standard applications

- Only 60 mm installation depth, 11.2 mm wide
 Can be installed in economical standard terminal boxes
- Fixed ranges, easy to use
 Ready to use without any settings or adjustments
- Zero/Span compensation on front panel for readjustment of sensor signal or measuring equipment

• True 3-port separation

Protection against erroneous measurements due to parasitic voltages or ground loops

Protective Separation acc. to EN 61140 Protects service personnel and downstream devices against impermissibly high voltage

Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications

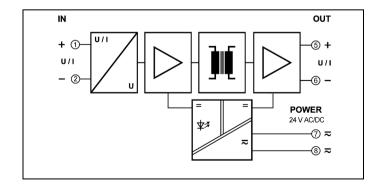
• 5 Years Warranty

Defects occurring within 5 years from delivery date shall be remedied free of charge at our plant (carriage and insurance paid by sender)

Block diagram

Tel.: 03303 / 50 40 66

Fax.: 03303 / 50 40 68





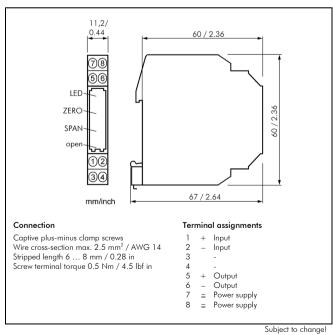
Technical Data

Input			
Input signal	\pm 10 V \pm 5 V \pm 20 mA \pm 10 mA		
(see product line)	0 10 V 0 5 V 0 20 mA		
	2 10 V 1 5 V 4 20 mA		
Input resistance	Voltage input approx. 1 M Ω		
	Current input approx. 5 Ω		
Overload	Voltage input ≤ 250 V		
	Current input ≤ 200 mA		
Output			
Output signal	0 10 V 0 5 V 0 20 mA		
(see product line)	2 10 V 1 5 V 4 20 mA		
Load	Voltage output $\geq 2 \text{ k}\Omega$		
	Current output $\leq 500 \Omega$		
Residual ripple	$< 10 \text{ mV}_{rms}$		
General Data			
Transmission error	< 0.2 % full scale		
Temperature coefficient ¹⁾	< 0.02 %/K		
Zero/Span Compensation	± 3 %		
Cut-off frequency -3 dB	500 Hz		
Response time T ₉₉	< 2 ms		
Test voltage	3 kV AC, 50 Hz, 1 min. input against output against power supply		
Working voltage ²⁾ (Basic Insulation)	600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1		
Protection against electrical shock ²⁾	Protective separation according to EN 61140 by reinforced insulation in accordance with EN 61010-1		
	up to 300 V AC/DC for overvoltage category II and pollution degree 2 between all circuits		
Ambient temperature	Operation - 20 to + 60 °C (- 4 to + 140 °F)		
	Transport and storage − 35 to + 85 °C (- 31 to + 185 °F)		
Power supply	24 V AC/DC, ± 15 % AC: 48 62 Hz, approx. 2 VA		
	DC: approx. 0.7 W		
EMC ³⁾	EN 61326-1		
Construction	11.2 mm (0.44") housing, protection class: IP 20, mounting on 35 mm DIN rail acc. to EN 60715		
Weight	Арргох. 50 g		

Product line

Device	C	Order No.	
Bipolar Isolation A	mplifier IS 68	IS 68 P - X X	
		↓	
Input	0 10 V	Ō	
	2 10 V	6	
	± 10 V	1	
	0 5 V	3	
	1 5 V	7	
	± 5 V	2	
	0 20 mA	8	
	4 20 mA	9	
	± 20 mA	4	
	± 10 mA	5	
Output	0 10 V	6	
	2 10 V	7	
	0 5 V	5	
	1 5 V	8	
	0 20 mA	2	
	4 20 mA	4	
cross-connector	for looping through the power sup	oply DZU 0801	
(2 pcs.)	for up to 10 units, splittable		

Dimensions



¹⁾ Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C
2) For applications with high working voltages, ensure there is sufficient spacing or isolation from neighboring devices and protection against electric shocks.

³⁾ Minor deviations possible during interference