

Product Datasheet - Technical Specifications



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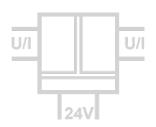
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Isolation Amplifier DN 28

Isolation and Conversion of Standard Signals



The Isolation Amplifier DN 28 is used for isolation and conversion of 0 \dots 20 mA, 4 \dots 20 mA and 0 \dots 10 V standard signals.

For applications where one signal combination only is used, the Isolation Amplifier DN 28 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 DN 28 universally applicable for all measurement and industrial applications, as well as for building automation.

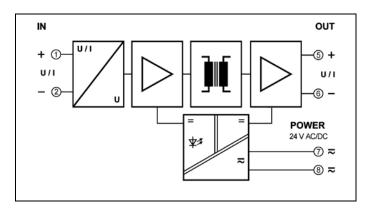
• Cost optimized design Economical separation for standard applications

- 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
- 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







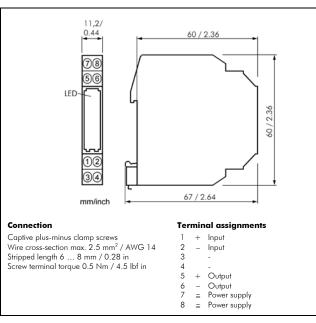
Technical Data

Input				
Input signal	0 20 mA 4 20 mA 0 10 V see product line			
Input resistance	Current input approx. 5Ω			
	Voltage input approx. 1 $M\Omega$			
Overload	Current input ≤ 200 mA			
	Voltage input ≤ 250 V			
Output				
Output signal	0 20 mA 4 20 mA 0 10 V see product line			
Load	Current output $\leq 500 \Omega$			
	Voltage output $\geq 2 \text{ k}\Omega$			
Residual ripple	< 10 mV _{rms}			
General Data				
Transmission error	< 0.2 % full scale			
Temperature coefficient ¹⁾	< 0.02 % /K			
Cut-off frequency -3 dB	200 Hz			
Response time T ₉₉	3.5 ms			
Test voltage	3 kV AC, 50 Hz, 1 min. input against output against power supply			
Working voltage (Basic Insulation) ²⁾	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			Order No.
Isolation Amplifier	DN 28 P		
	Input	Output	
	0 20 mA	0 20 mA	DN 28 P - 12
	4 20 mA	0 20 mA	DN 28 P - 32
	0 10 V	0 20 mA	DN 28 P - 52
	0 20 mA	4 20 mA	DN 28 P - 14
	4 20 mA	4 20 mA	DN 28 P - 12
	0 10 V	4 20 mA	DN 28 P - 54
	0 20 mA	0 10 V	DN 28 P - 16
	4 20 mA	0 10 V	DN 28 P - 36
	0 10 V	0 10 V	DN 28 P - 56
cross-connector (2 pcs.)	for looping through the power supply for up to 10 <i>Tiny Snap</i> , splittable		DZU 0801

Dimensions



Subject to change!

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