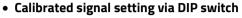
2-Channel Isolation Amplifier DN 26000

Isolation and Conversion of Standard Signals

The 2-Channel Isolation Amplifier DN 26000 is used for isolation and conversion of 0/4 ... 20 mA and 0 ... 10 V, 0... 5 V standard signals.

Due to the extremely slim design, the space requirement is only 3 mm per channel. The input and output ranges can be selected individually for each channel via DIP switches. A readjustment is not necessary due to the calibrated measuring ranges. A signal clipping and the cut-off frequency can also be set via DIP switches.

The power is supplied via the In-Rail-Bus, which ensures prewiring on a standard DIN rail. This significantly reduces the wiring effort. A green LED on the front of the unit has been provided to monitor the power supply.



Input and output range can be set by using DIP switch – high precision without any further adjustment

• 5-Port Isolation

Protection against erroneous measurements due to parasitic voltages or ground loops

• Extremely slim design

6.2 mm slim housing for a simple and space saving DIN rail mounting

Power supply via In-Rail-connector

allows fast and economical installation

Protective Separation acc. to EN 61140

Protects service personnel and downstream devices against impermissibly high voltage

· Maximum reliability

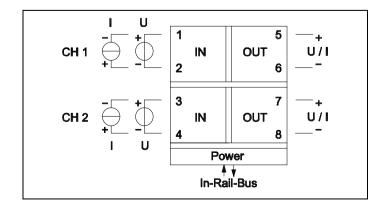
No maintenance costs

• 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



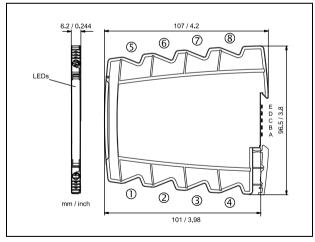


Technical Data

Input						
Input signal	0 20 mA	4 20 mA				
(calibrated switchable)	0 10 V	0 5 V				
Input resistance	Current input		≤ 25 Ω			
	Voltage input		≥100 kΩ			
Overload	Current input		≤ 50 mA			
	Voltage input		≤ 30 V			
Output						
Output signal	0 20 mA	4 20 mA				
(calibrated switchable)	0 10 V	0 5 V				
Load	Current output	t : \leq 10 V (500 Ω	at 20 mA)	Voltage output: \leq 5 mA (2 k Ω at 10 V)		
Linear transmission range	-1 +110 %					
Residual ripple	< 10 mV _{rms}					
General Data						
Transmission error	< 0.1 % full scale					
Temperature coefficient 1)	< 100 ppm/K					
Cut-off frequency -3 dB (switchable)	100 Hz 10) Hz				
Response time T ₉₉	10 ms 55	5 ms				
Test voltage	3 kV AC, 50 Hz, 1 min. Inputs against outputs 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	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		– 25 °C to + 70 °C	(– 13 to + 158 °F)		
	Transport and storage		– 40 °C to + 85 °C	(– 40 to + 185 °F)		
Power supply	24 V DC via In-Rail-Bus		voltage range 16.8 V 31.2 V, approx. 1.1 W			
EMC ³⁾	EN 61326-1					
Construction	6.2 mm (0.244") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715					
Weight	Approx. 70 g					

¹⁾ Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C

Dimensions



Subject to change!

Terminal assignments

1 2	Input channel 1 (+U / -I) Input channel 1 (-U / +I)	5 6	Output channel 1 + Output channel 1 –
3 4	Input channel 2 (+U / -I) Input channel 2 (-U / +I)	7 8	Output channel 2 + Output channel 2 -
	Power supply In-Rail-Bus D + Power supply In-Rail-Bus C -		

Connection

Captive plus-minus clamp screws Wire cross-section 0.5 ... 2.5 mm² / 0.5 ... 1.5 mm² Stripped length 8 mm Screw terminal torque 0.6 Nm Power connection via In-Rail-Bus (see accessories)

Product line	Order No.
2-Channel Isolation Amplifier, screw terminals	DN 26000 B
In-Rail-Bus for power supply (see accessories)	

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