

Technical Data

Input	
Input signal	0 ... 20 mA 4 ... 20 mA switch selectable 0 ... 10 V 2 ... 10 V 0 ... 5 V 1 ... 5 V
Input resistance	Current input $\leq 50 \Omega$ Voltage input $\geq 100 k\Omega$
Overload	Current input $\leq 50 \text{ mA}$ Voltage input $\leq 30 \text{ V}$
Output	
Output signal	0 ... 20 mA 4 ... 20 mA switch selectable 0 ... 10 V 2 ... 10 V 0 ... 5 V 1 ... 5 V
Load	Current output: $\leq 12 \text{ V}$ (600 Ω at 20 mA) Voltage output: $\leq 5 \text{ mA}$ (2 k Ω at 10 V)
Offset	Current output: $< 20 \mu\text{A}$ Voltage output: $< 10 \text{ mV}$
Linear transmission range	-1 ... +110 %
Ripple	$< 10 \text{ mV}_{\text{rms}}$
General Data	
Transmission error	$< 0.1 \%$ of final value
Temperature coefficient ¹⁾	$< 100 \text{ ppm/K}$
Zero/Span compensation (only D6N 25000)	$\pm 3 \%$ of final value
Cut-off frequency (-3 dB)	5 kHz D6N 25000 switchable to 100 Hz
Response time (T_{10-90})	100 μs D6N 25000 switchable to 3.5 ms
Test voltage	2.5 kV, 50 Hz Input against output against power supply
Working voltage ²⁾ (Basic insulation)	Up to 600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1 between all circuits.
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 16.8 V ... 31.2 V, approx. 0.7 W
EMC ³⁾	EN 61326-1
Construction	6.0 mm housing, protection class: IP 20
Weight	Approx. 50 g

1) Average TC based on the final value 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.

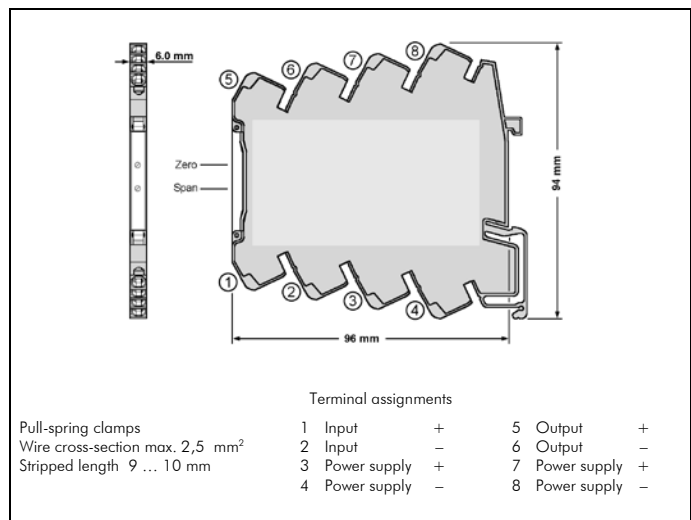
3) Minor deviations possible during interference

Bold: Factory setting for D6N 25000

Product line

Devices	Order No.	
Isolation Amplifier, Zero/Span compensation, calibrated range selection	D6N 25000	
Isolation Amplifier fixed setting		
Input	Output	
0 ... 20 mA	0 ... 20 mA	D6N 25120
4 ... 20 mA	4 ... 20 mA	
0 ... 10 V	4 ... 20 mA	D6N 25540
0 ... 5 V	4 ... 20 mA	D6N 25740
4 ... 20 mA	0 ... 10 V	D6N 25360
4 ... 20 mA	0 ... 5 V	D6N 25370
0 ... 5 V	0 ... 5 V	D6N 25560
0 ... 10 V	0 ... 10 V	
Request for more fixed signal combinations		

Dimensions



Subject to change !