

Isolated converter

3105

- Isolation and conversion of standard DC signals
- Slimline housing of 6 mm
- Response time <7 ms
- Low cost
- DIP-switch configured















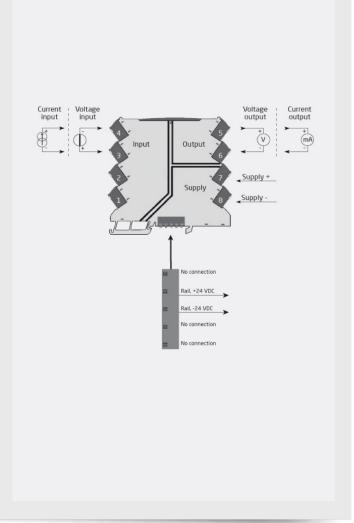
Application

- · Isolation and conversion of standard DC signals.
- Galvanic separation of analog current and voltage signals.
- · Elimination of ground loops and measurement of floating signals.
- · A competitive choice in terms of both price and technology for galvanic isolation of current and voltage signals to SCADA systems or PLC equipment.
- · Suitable for environments with high vibration stress, e.g. ships.

Technical characteristics

- · Easy configuration via DIP-switches.
- The input is protected against overvoltage and polarity error.
- · Factory-calibrated measurement ranges.
- · Inputs and outputs are floating and galvanically separated.

Applications



Order

Туре	Version	
3105	With power rail connector / terminals	:-
	Supplied via terminals	:-N

Example: 3105-N

Environmental Conditions

Operating temperature	0°C to +70°C
Storage temperature	-40°C to +85°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20
Installation in	Pollution degree 2 & meas. /
	overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD)	113 x 6.1 x 115 mm
Weight approx	70 g
DIN rail type	0.132.5 mm ² / AWG 2612
	stranded wire
Screw terminal torque	0.5 Nm
Vibration	IEC 60068-2-6
225 Hz	±1.6 mm
25100 Hz	±4 g

Common specifications

Supply

Cuppiy	
Supply voltage	16.831.2 VDC
Max. required power	0.80 W
Max nower dissination	0.52 W

Isolation voltage Isolation voltage, test / working..... 2.5 kVAC / 300 VAC (reinforced)

Response time Response time (090%, 10010%)	< 7 ms
Programming	> 60 dB
Signal dynamics, input	Analog signal chain Analog signal chain
Accuracy	range
Temperature coefficient	
NE21, A criterion, burst	< ±1% of span

Input specifications

Current input

Measurement range	023 mA
Programmable measurement ranges	020 and 420 mA
Input voltage drop	< 1.5 VDC

Voltage input

Voltage Input	
Measurement range	010.25 V
Measurement range	011.5 V / 05.75 V
Programmable measurement ranges	0/15 and 0/210 V
Input resistance	≥ 500 kΩ

Output specifications

•	
Current output	
Signal range	023 mA
Programmable signal ranges	0 / 420 mA
Load (@ current output)	≤ 600 Ω
Load stability	\leq 0.002% of span / 100 Ω
Current limit	
Voltage output Signal range Programmable signal ranges Load (@ voltage output)	0/15 and 0/210 V
of span	= of the DIP-switch selected output range

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU
RoHS	2011/65/EU
EAC	TR-CU 020/2011

Approvals

DNV-GL Marine	Stand. f. Certific. No. 2.4
UL	UL 508 / C22.2 no. 14