

Ex-isolated driver

5105B

- 1- or 2-channel version
- 3- / 5-port 3.75 kVAC galvanic isolation
- Driver for Ex / I.S. area
- 20 programmable measurement ranges
- Universal supply by AC or DC

















Application

- · Safety barrier for current signals transmitted to I/P converters and displays mounted in hazardous area.
- Safety barrier for analog current / voltage signals transmitted to hazardous area.
- 1:1 or signal conversion of analog current / voltage signals.

Technical characteristics

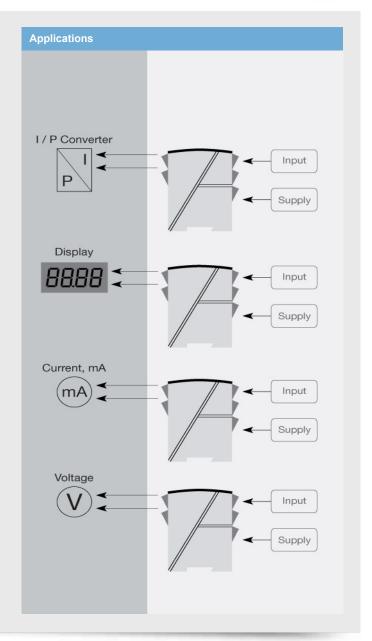
- The 20 factory-calibrated measurement ranges in the 5105B can be selected by the internal DIP-switches without the need for a recalibration. Special measurement ranges can be
- · PR5105B is based on microprocessor technology for gain and offset. The analog signal is transmitted at a response time of less than 25 ms.
- · Inputs, outputs, and supply are floating and galvanically separated.

Mounting / installation

· Mounted vertically or horizontally on a DIN rail. By way of the 2-channel version up to 84 channels per meter can be mounted.

Note

· Not suitable for new installations requiring certification to the latest ATEX standards - see ATEX certificate DEMKO 99ATEX126014 and EU Declaration of Conformity for details.



Order:

Туре	Input		Output		Channe	els
5105B	020 mA	: A	Special	: 0	Single	: A
	420 mA	: B	020 mA	: 1	Double	: B
	010 V	: E	420 mA	: 2		
	210 V	: F	01 V	: 4		
	Special	: X	0.21 V	: 5		
			010 V	: 6		
			210 V	: 7		

Environmental Conditions

Operating temperature	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20

Mechanical specifications

Dimensions (HxWxD)	109 x 23.5 x 130 mm
Weight approx	225 g
DIN rail typeWire size	1 x 2.5 mm ² stranded wire
Screw terminal torque	0.5 Nm
Vibration	IEC 60068-2-6
213.2 Hz	±1 mm
13.2100 Hz	±0.7 g

Common specifications

Supply	
Supply voltage, universal	21.6253 VAC, 5060 Hz o 19.2300 VDC
Fuse	400 mA SB / 250 VAC
Max. required power	≤ 2 W (2 channels)
Internal power dissipation	
la eletion voltano	
Isolation voltage	
Isolation voltage test /	

3.75 kVAC / 250 VAC

Response time (0...90%, 100...10%)...... < 25 ms

Input specifications

Common input specifications

Current input

 Measurement range.
 0...20 mA

 Min. measurement range (span).
 16 mA

 Input resistance.
 Nom. 10 Ω + PTC 10 Ω

Input resistance..... > 2 M Ω

Output specifications

Current output	
Signal range	020 mA
Min. signal range	16 mA
Load (@ current output)	
Load stability	≤ 0.01% of span / 100 Ω
Current limit	≤ 28 mA
Voltage output Signal range	0.8 VDC / 8 VDC
of span	= of the presently selected

Observed authority requirements

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

Approvals

ATEX	DEMKO 99ATEX126014. II (1)
	GD [EEx ia] IIC
c UL us, UL 913	E233311
EAC Ex	RU C-DK.HA65.B.00355/19
DNV Marine	ΤΔΔ0000101