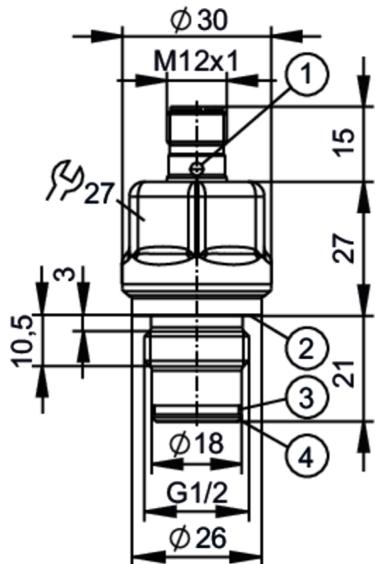


PL1506

Flush pressure transmitter

PL-2,5-REA12-A-DKG/US/ /



- 1 LED
- 2 Sealing DIN EN ISO 1179-2
- 3 groove for O-ring 16.4 x 1.0
- 4 area for metal sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1		
Measuring range	-125...2500 mbar	-1.82...36.3 psi	-12.5...250 kPa
Process connection	threaded connection G 1/2 external thread		

Application

Special feature	Gold-plated contacts		
Measuring element	ceramic-capacitive pressure measuring cell		
Temperature monitoring	yes		
Application	flush mountable for industrial applications; for industrial applications		
Media	viscous media and liquids with suspended particles; Liquids; other media on request		
Medium temperature [°C]	-25...110; (flush mount zero-leak using metal-to-metal seal. for permissible temperatures of other sealing versions, see sealing materials under "Accessories")		
Min. bursting pressure	50000 mbar	725 psi	5000 kPa
Pressure rating	30000 mbar	435 psi	3000 kPa
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure; vacuum		
No dead space	yes		

Electrical data

Operating voltage [V]	9.6...30 DC		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Integrated watchdog	yes		

PL1506



Flush pressure transmitter

PL-2,5-REA12-A-DKG/US/ /

2-wire

Current consumption	[mA]	3.5...21.5
Power-on delay time	[s]	< 1

3-wire

Current consumption	[mA]	< 30
Power-on delay time	[s]	< 0.5

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
------------------------------	---

Outputs

Total number of outputs	2
Output signal	analogue signal; IO-Link (configurable)
Number of digital outputs	1; (IO-Link)
Number of analogue outputs	1
Analogue current output	[mA] 4...20; (scalable; 1:5)
Max. load	[Ω] (Ub - 9,6 V) / 21,5 mA; 670 Ω (Ub = 24 V)
Short-circuit proof	yes
Overload protection	yes

Measuring/setting range

Measuring range	-125...2500 mbar	-1.82...36.3 psi	-12.5...250 kPa
Analogue start point	-125...2000 mbar	-1.81...29.01 psi	-12.5...200 kPa
Analogue end point	375...2500 mbar	5.44...36.26 psi	37.5...250 kPa
In steps of	0.5 mbar	0.02 psi	0.05 kPa
Factory setting	ASP = 0.0 mbar	AEP = 2500 mbar	
	ASP = 0.0 psi	AEP = 36.26 psi	
	ASP = 0.0 kPa	AEP = 250.0 kPa	

Temperature monitoring

Measuring range	-25...110 °C	-13...230 °F
-----------------	--------------	--------------

Accuracy / deviations

Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)
Characteristics deviation	[% of the span]	< ± 0,5; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)
Linearity deviation	[% of the span]	< ± 0,15; (Turn down 1:1)
Hysteresis deviation	[% of the span]	< ± 0,15; (Turn down 1:1)
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,1 (-25...85 °C) < ± 0,3 (85...110 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,1 (-25...85 °C) < ± 0,3 (85...110 °C)
Temperature monitoring		
Accuracy	[K]	± 2.5 K + (0.045 x (ambient temperature - medium temperature))

PL1506



Flush pressure transmitter

PL-2,5-REA12-A-DKG/US/ /

Response times		
Damping process value dAP	[s]	0...99.99
Damping for the analogue output dAA	[s]	0...99.99
2-wire		
Step response time analogue output	[ms]	12
3-wire		
Step response time analogue output	[ms]	3
Temperature monitoring		
Dynamic response T05 / T09	[s]	< 10 / < 25; (DIN EN 60751 water; > 0,9 m/s)
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles		Smart Sensor ED2: Identification and Diagnosis (0x4000), Measurement Data Channel (0x800A)
SIO mode		no
Required master port type		A; (when pin 2 not connected: B)
Min. process cycle time	[ms]	3.5
IO-Link resolution pressure	[mbar]	0.5
IO-Link resolution temperature	[K]	0.2
IO-Link process data (cyclical)	function	bit length
	pressure	16
	temperature	16
	device status	4
IO-Link functions (acyclical)		application specific tag; internal temperature
Supported DeviceIDs	Type of operation	DeviceID
	default	1436
Operating conditions		
Ambient temperature	[°C]	-25...90
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 68; IP 69
Tests / approvals		
EMC		DIN EN 61326-1
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-6
MTTF	[years]	427
UL approval	Enclosure type	Type 1
	UL Approval no.	J050
	File number UL	E174189
Mechanical data		
Weight	[g]	112.75

PL1506



Flush pressure transmitter

PL-2,5-REA12-A-DKG/US /

Materials	stainless steel (316L/1.4435); stainless steel (316L/1.4404); PA; PTFE; FKM	
Materials (wetted parts)	stainless steel (316L/1.4435); Al2O3 (ceramics); surface characteristics : Ra < 0,4 / Rz 4; PTFE; (FKM for sealing with seal DIN EN ISO 1179-2, see operating instructions)	
Min. pressure cycles	100 million	
Tightening torque [Nm]	25	
Process connection	threaded connection G 1/2 external thread	

Displays / operating elements

Display	Display unit	2 LED, green
---------	--------------	--------------

Accessories

Items supplied	Gasket: G1/2, FKM DIN EN ISO1179-2 (-15...110°C), E30492
Accessories (optional)	Gasket: G1/2, FKM DIN EN ISO1179-2 (-15...110°C), E30492
	Gasket: G1/2, EPDM DIN EN ISO1179-2 (-25...110°C), E30451
	Gasket: G1/2, FFKM DIN EN ISO1179-2 (-5...110°C), E30513
	O-ring: 16,4 x 1, FKM (-15...110°C), E30510
	O-ring: 16,4 x 1, EPDM (-25...110°C), E30511
	O-ring: 16,4 x 1, FFKM (-5...110°C), E30512

Remarks

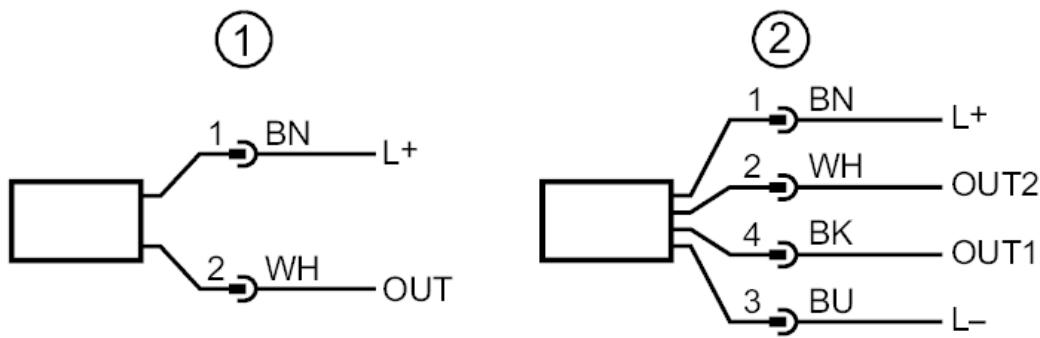
Pack quantity	1 pcs.
---------------	--------

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



- 1 connection for 2-wire operation (analogue)
- 2 connection for 3-wire operation (analogue / IO-Link)
- OUT1: IO-Link
- OUT2: analogue output