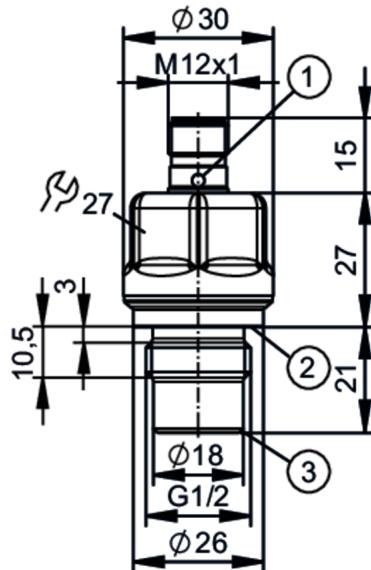


PL1512



Flush pressure transmitter

PL-160-REA12-A-DKG/US/ /



- 1 LED
2 Gasket DIN EN ISO 1179-2
3 area for metal sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1		
Measuring range	0...160 bar	0...2320 psi	0...16 MPa
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	встановлення врівень для промислового застосування; 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	640 bar	9280 psi	64 MPa
Pressure rating	400 bar	5800 psi	40 MPa
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	9.6...30 DC		
Min. insulation resistance [$M\Omega$]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Integrated watchdog	yes		
2-wire			
Current consumption [mA]	3.5...21.5		
Power-on delay time [s]	< 1		

PL1512



Flush pressure transmitter

PL-160-REA12-A-DKG/US/ /

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	0...160 bar	0...2320 psi	0...16 MPa
Analogue start point	0...128 bar	0...1856 psi	0...12.8 MPa
Analogue end point	32...160 bar	464...2321 psi	3.2...16 MPa
In steps of	0.02 bar	2 psi	0.002 MPa
Factory setting	ASP = 0.0 bar	AEP = 160 bar	
Temperature monitoring			
Measuring range	-25...110 °C	-13...230 °F	
Accuracy / deviations			
Repeatability	[X21]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)	
Characteristics deviation	[X21]	< ± 0,5; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)	
Linearity deviation	[X21]	< ± 0,15; (Turn down 1:1)	
Hysteresis deviation	[X21]	< ± 0,15; (Turn down 1:1)	
Long-term stability	[X21]	< ± 0,1; (Turn down 1:1; per year)	
Temperature coefficient zero point	[X22]	< ± 0,1 (-25...85 °C) < ± 0,3 (85...110 °C)	
Temperature coefficient span	[X22]	< ± 0,1 (-25...85 °C) < ± 0,3 (85...110 °C)	
Temperature monitoring			
Accuracy	[K]	± 2.5 K + (0.045 x (ambient temperature - medium temperature))	
Response times			
Damping process value dAP	[s]	0...99.9	
Damping for the analogue output dAA	[s]	0...99.9	
2-wire			
Step response time analogue output	[ms]	12	
3-wire			
Step response time analogue output	[ms]	3	

PL1512



Flush pressure transmitter

PL-160-REA12-A-DKG/US/ /

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 [bar]		0.02
IO-Link resolution temperature [K]		0.2
IO-Link process data (cyclical)	function pressure temperature device status	bit length 16 16 4
IO-Link functions (acyclical)	application specific tag; internal temperature	
Supported DeviceIDs	Type of operation default	DeviceID 1435
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	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [ANN]		427
UL approval	Enclosure type UL Approval no. File number UL	Type 1 J053 E174189
Mechanical data		
Weight [g]		114.15
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	operating status	2 LED, green

PL1512



Flush pressure transmitter

PL-160-REA12-A-DKG/US/ /

Аксесуари

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

Remarks

Pack quantity

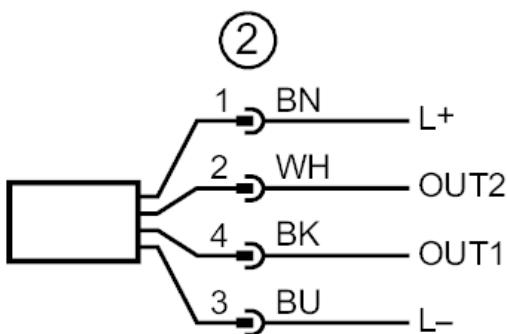
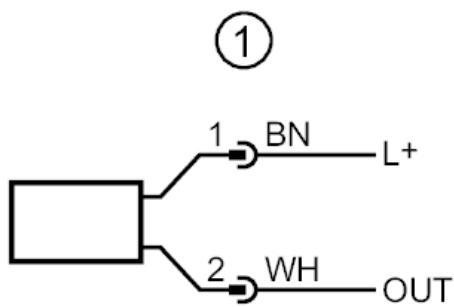
1 pcs.

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