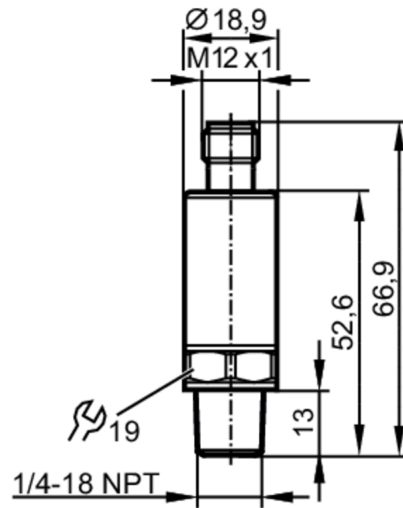


PV7601



Electronic pressure monitor

PV-250-SEN14-UFRVG/US/ I



Product characteristics

Output signal	switching signal; IO-Link; (configurable)		
Measuring range	0...250 bar	0...3626 psi	0...25 MPa
Process connection	threaded connection 1/4 NPT external thread internal thread M5		

Application

Measuring element	metallic thin film cell		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Pressure rating	625 bar	9060 psi	62.5 MPa
Note on pressure rating	static		
Min. bursting pressure	1200 bar	17400 psi	120 MPa
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		
MAWP (for applications according to CRN) [bar]	625		

Electrical data

Operating voltage [V]	18...30 DC		
Current consumption [mA]	< 15		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	< 0.3		

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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PV-250-SEN14-UFRVG/US/ I

Outputs			
Total number of outputs		2	
Output signal		switching signal; IO-Link; (configurable)	
Electrical design		PNP/NPN	
Number of digital outputs		2	
Output function		normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC	[V]	2	
Permanent current rating of switching output DC	[mA]	100	
Switching frequency DC	[Hz]	< 170	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Measuring/setting range			
Measuring range		0...250 bar	0...3626 psi
Set point SP		2.5...250 bar	37...3626 psi
Reset point rP		1.3...248.8 bar	18...3608 psi
In steps of		0.1 bar	1 psi
Factory setting		SP1 = 62.5 bar	rP1 = 57.5 bar
		SP2 = 187.5 bar	rP2 = 182.5 bar
		dS1/dS2 = 0 ms	dr1/dr2 = 0 ms
		coF = 0 %	P-n = PnP
			0...25 MPa
			0.25...25 MPa
			0.13...24.88 MPa
			0.01 MPa
			ou1 = Hno;
			ou2 = Hno;
			dAP= 60 ms
Accuracy / deviations			
Switch point accuracy	[% of the span]	< ± 0,5 (nach DIN EN 61298-2)	
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)	
Characteristics deviation	[% of the span]	< ± 0,5 (nach DIN EN 61298-2); (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)	
Linearity deviation	[% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (LS)	
Hysteresis deviation	[% of the span]	< ± 0,2	
Long-term stability	[% of the span]	< ± 0,1; (per 6 months)	
Temperature coefficient zero point	[% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)	
Temperature coefficient span	[% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)	
Response times			
Response time	[ms]	< 3	
Software / programming			
Parameter setting options		hysteresis / window; normally open / normally closed; switching logic; switch-on/switch-off delay; Damping	

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Interfaces	
Communication interface	IO-Link
Transmission type	COM2 (38,4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9
IO-Link device ID	852 d / 00 03 54 h
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis
SIO mode	yes
Required master port type	A
Process data analogue	2
Process data binary	2
Min. process cycle time [ms]	5

Operating conditions	
Ambient temperature [°C]	-40...90
Storage temperature [°C]	-40...100
Protection	IP 67; IP 69K

Tests / approvals		
EMC	DIN EN 61326-1	
Shock resistance	DIN EN 60068-2-27	500 g (1 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	668	
UL approval	UL Approval no.	J016
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data	
Weight [g]	66.5
Materials	1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)	stainless steel (1.4305 / 303); 1.4542 (17-4 PH / 630)
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)
Tightening torque [Nm]	50; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection	threaded connection 1/4 NPT external thread internal threadM5
Restrictor element integrated	yes

Remarks	
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12



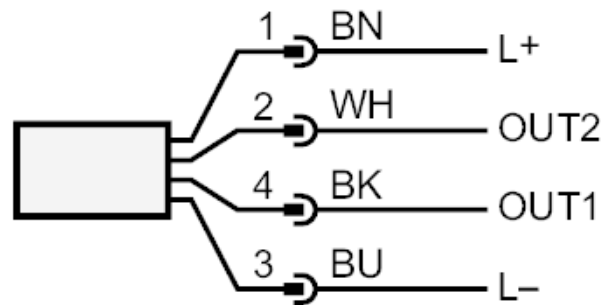
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Electronic pressure monitor

PV-250-SEN14-UFRVG/US/ /

Connection



OUT1 switching output

IO-Link

OUT2 switching output

colours to DIN EN 60947-5-2

Core colours :

BK = black

BN = brown

BU = blue

WH = white