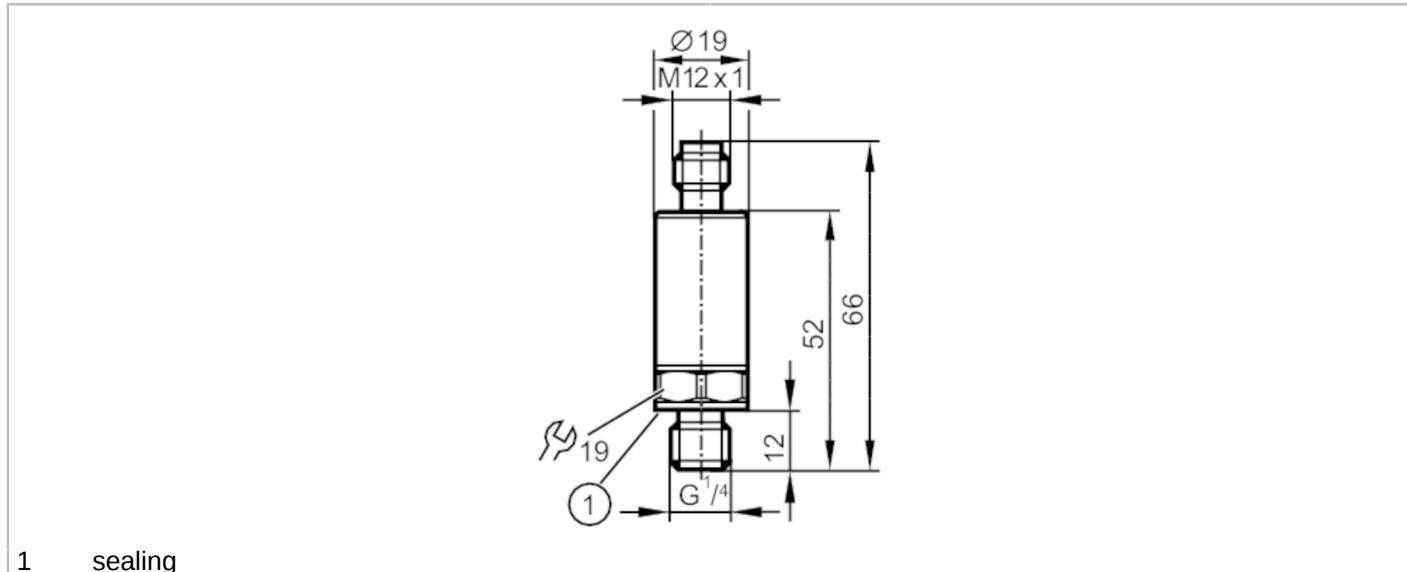


# PV7000



## Pressure switch with IO-Link

PV-400-SEG14-UFRVG/USI /



1 sealing



### Product characteristics

Number of inputs and outputs	Number of digital outputs: 2		
Measuring range	0...400 bar	0...5800 psi	0...40 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2); Internal thread:M5		

### Application

Measuring element	metallic thin film cell		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]		-40...90	
Min. bursting pressure	1700 bar	24655 psi	170 MPa
Pressure rating	1000 bar	14500 psi	100 Mpa
Note on pressure rating		static	
Vacuum resistance [mbar]		-1000	
Type of pressure	relative pressure		

### 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
------------------------------	------------------------------

# PV7000



## Pressure switch with IO-Link

PV-400-SEG14-UFRVG/USI /

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 / closed; (configurable)				
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	yes (non-latching)				
Overload protection	yes				
Measuring/setting range					
Measuring range	0...400 bar	0...5800 psi	0...40 MPa		
Set point SP	4...400 bar	58...5802 psi	0.4...40 MPa		
Reset point rP	2...398 bar	30...5773 psi	0.2...39.8 MPa		
In steps of	0.2 bar	1 psi	0.02 MPa		
Factory setting	SP1 = 100 bar SP2 = 300 bar dS1/dS2 = 0 ms coF = 0 %	rP1 = 92 bar rP2 = 292 bar dr1/dr2 = 0 ms P-n = PnP	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; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)			
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)			
Reaction times					
Response time [ms]		< 3			
Software / programming					
Parameter setting options	hysteresis / window; normally open / closed; switching logic; switch-on/switch-off delay; Damping				

# PV7000



## Pressure switch with IO-Link

PV-400-SEG14-UFRVG/USI /

Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles		Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis
SIO mode		yes
Required master port class		A
Process data analog		2
Process data binary		2
Min. process cycle time [ms]		5
Supported DeviceIDs	Type of operation	DeviceID
	default	708
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]		667.77
UL approval	UL approval number	J016
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight [g]		63.5
Material	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]	25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)	
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2); Internal thread:M5	
Process connection sealing	FKM (DIN EN ISO 1179-2)	
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; coding: A		

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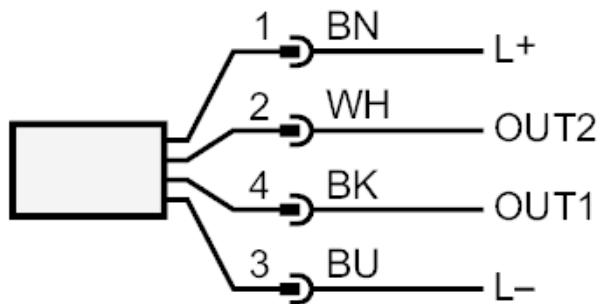


## Pressure switch with IO-Link

PV-400-SEG14-UFRVG/USI /



### Connection



OUT1	Switching output IO-Link
OUT2	Switching output Colors to DIN EN 60947-5-2 Core colors :
BK =	black
BN =	brown
BU =	blue
WH =	white