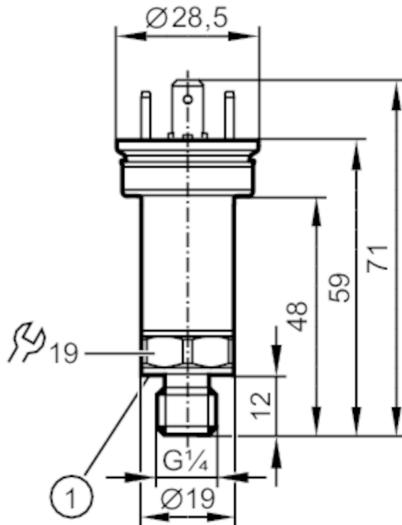


# PT5014

## Pressure transmitter

PT-016-SEG14-A-ZVG/VE



1 sealing



### Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...16 bar	0...232 psi	0...1.6 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

### Application

Measuring element	metallic thin film cell		
Application	for mobile applications; for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
Min. bursting pressure	450 bar	6525 psi	45 MPa
Pressure rating	40 bar	580 psi	4 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

### Electrical data

Operating voltage [V]	8...36 DC		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	< 0.1		

### Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1		
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### Outputs

Output signal	analog signal		
Number of analog outputs	1		
Analog current output [mA]	4...20		

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## Pressure transmitter

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Max. load	[Ω]	(Ub - 8 V) / 21,5 mA ; @8V= 0 Ω ; @12V max. 200 Ω; @24V max. 750 Ω
Short-circuit proof		yes
Overload protection		yes
<b>Measuring/setting range</b>		
Measuring range	0...16 bar	0...232 psi
0...1.6 MPa		
<b>Accuracy / deviations</b>		
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 0,5; (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 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)
<b>Reaction times</b>		
Step response time analog output	[ms]	2
<b>Operating conditions</b>		
Ambient temperature	[°C]	-40...100
Storage temperature	[°C]	-40...100
Protection		IP 67
<b>Tests / approvals</b>		
EMC	Compliant with ECE R 10, rev. 5	(E1 compliant)
	DIN EN ISO 13766-1 : 2018	earth-moving and construction machines
	DIN EN ISO 14982 : 2009	agricultural and forestry machines
	ISO 11452-2	100 V/m
	ISO 7637-2 : 2011 pulse 1	Test severity III. function state C
	ISO 7637-2 : 2011 pulse 2b	test severity IV. function state C
	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]	715
UL approval	UL approval number	J032
	File number UL	E174189
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
<b>Mechanical data</b>		
Weight	[g]	67
Material	stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PPS	
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH); stainless steel (1.4305 / 303)	
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)	

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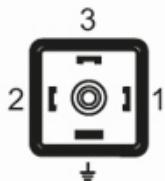
Tightening torque	[Nm]	25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing		FKM (DIN EN ISO 1179-2)
Restrictor element integrated		yes

## Remarks

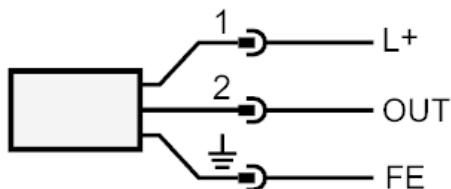
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

## Electrical connection

Connector: 1 x valve plug type A DIN (EN175301-803-A)



## Connection



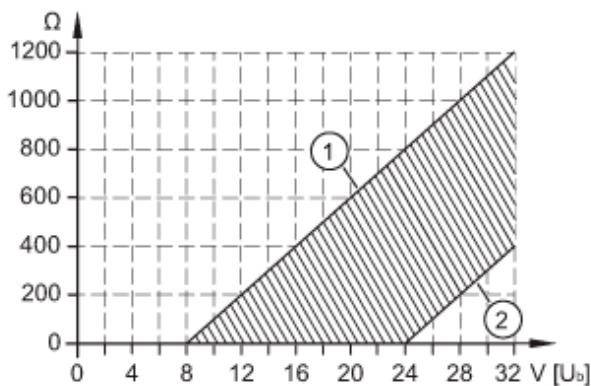
OUT	analog output
FE	functional earth

## Pressure transmitter

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### Diagrams and graphs

Characteristic load curve current output



1: Max. load

2: Min. load