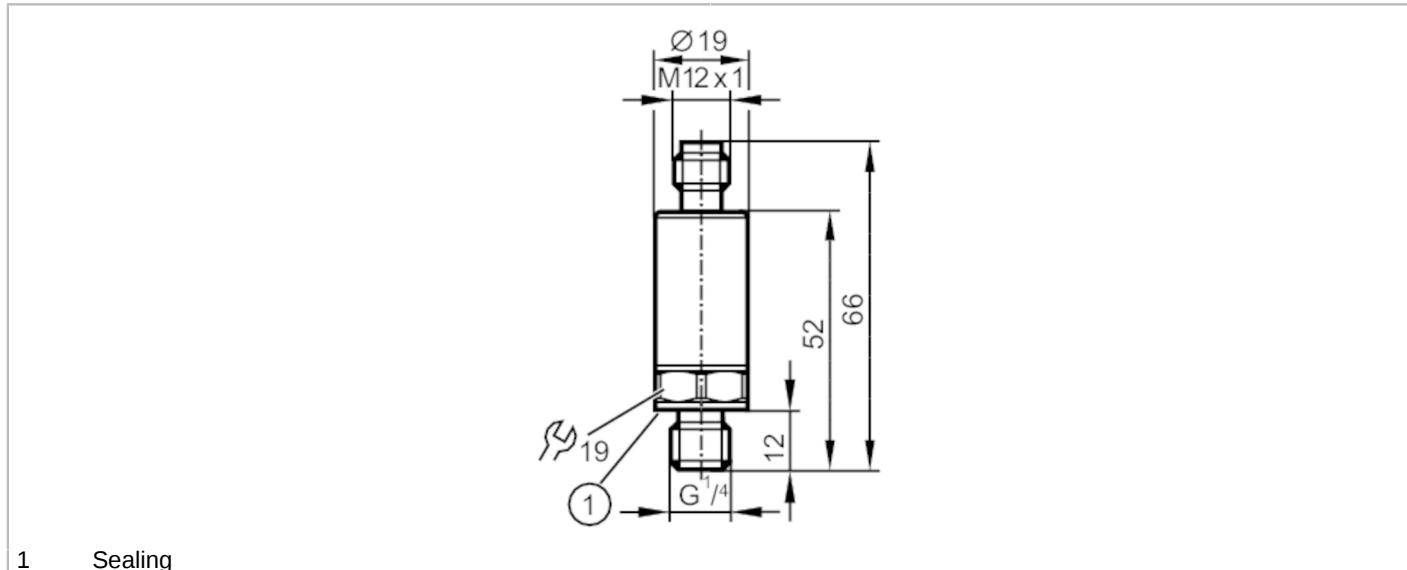


# PT5453



## Pressure transmitter

PT-030-SEG14-A-ZVG/US/ /W



1 Sealing



### Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...30 bar	0...435 psi	0...3 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

### Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]		-40...90	
Min. bursting pressure	600 bar	8700 psi	60 MPa
Pressure rating	65 bar	940 psi	6.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]		-1000	
Type of pressure	relative pressure		

### Electrical data

Operating voltage [V]	8.5..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 analogue outputs: 1		
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### Outputs

Total number of outputs	1		
Output signal	analogue signal		
Number of analogue outputs	1		
Analogue current output [mA]	4...20		
Max. load [Ω]	(Ub – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω		

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Short-circuit proof	yes				
Overload protection	yes				
<b>Measuring/setting range</b>					
Measuring range	0...30 bar	0...435 psi	0...3 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 and span [ % of the span / 10 K ]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)				
<b>Response times</b>					
Step response time analogue output [ ms ]	1				
<b>Operating conditions</b>					
Ambient temperature [ °C ]	-40...90				
Storage temperature [ °C ]	-40...100				
Protection	IP 67; IP 69K				
<b>Tests / approvals</b>					
EMC	DIN EN 61000-6-2				
	DIN EN 61000-6-3				
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)			
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)			
MTTF [ years ]	787				
UL approval	UL Approval no.	J027			
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request				
<b>Mechanical data</b>					
Weight [ g ]	58				
Materials	stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PEI				
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH)				
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)				
Process connection sealing	FKM (DIN EN ISO 1179-2)				
Restrictor element integrated	no (can be retrofitted)				
<b>Remarks</b>					
Remarks	BFSL = Best Fit Straight Line LS = limit value setting				
Pack quantity	1 pcs.				

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## Pressure transmitter

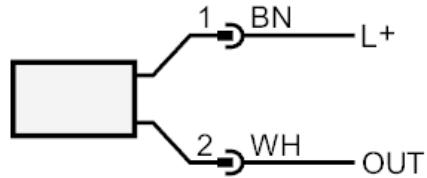
PT-030-SEG14-A-ZVG/US/ /W

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



OUT                   analogue output  
The following pin connection is available on request: Pin 1: L+, Pin 3: OUT  
colours to DIN EN 60947-5-2

Core colours :

BN                   brown  
WH                   white