

## Flush pressure sensor with display

PI-004-RES30-E-ZVG/US /P

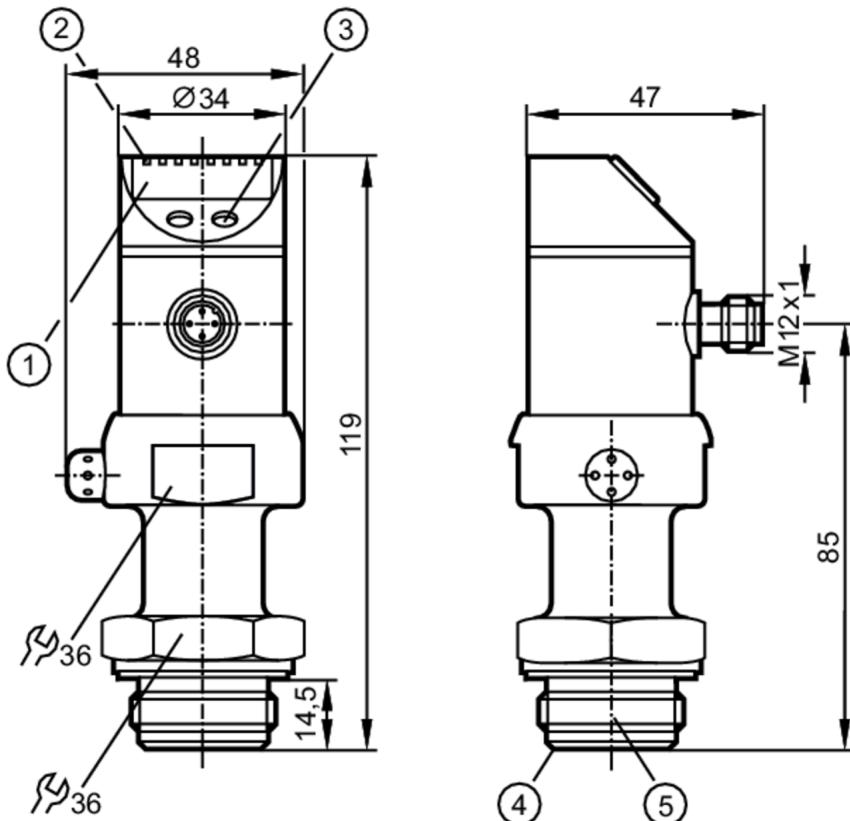
phase-out article

Discontinuation date: 03/31/2024

Alternative articles: PI1005 or PI1705

When selecting an alternative article and accessories please note that technical data may differ!

Please do not use for new projects.  
no more adapters available as accessories



- 1 alphanumeric display 4-digit
- 2 status LEDs
- 3 programming button
- 4 Aseptoflex sealing edge
- 5 Aseptoflex thread



## Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	-1...4 bar	-14.5...58 psi	-100...400 kPa
Process connection	threaded connection Aseptoflex external thread Aseptoflex		

## Application

Special feature	Gold-plated contacts
Application	flush mountable for the food and beverage industry
Installation	freely rotatable housing 350°
Media	viscous media and liquids with suspended particles; liquids and gases

# PI1095



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Medium temperature	[°C]	-25...125; (145 max. 1h)	
Min. bursting pressure	100 bar	1450 psi	10000 kPa
Pressure rating	30 bar	435 psi	3000 kPa
Type of pressure	relative pressure		
No dead space	yes		
<b>Electrical data</b>			
Operating voltage	[V]	20..32 DC	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
Protection class		III	
Reverse polarity protection		yes	
Power-on delay time	[s]	0.5	
Switch-on peak current	[mA]	6	
Switch-on peak current duration	[ms]	30	
Integrated watchdog		yes	
<b>Inputs / outputs</b>			
Number of inputs and outputs		Number of analogue outputs: 1	
<b>Outputs</b>			
Total number of outputs		1	
Output signal		analogue signal	
Number of analogue outputs		1	
Analogue current output	[mA]	4...20, invertible; (scalable 1:4)	
Max. load	[Ω]	300	
Overload protection		yes	
<b>Measuring/setting range</b>			
Measuring range	-1...4 bar	-14.5...58 psi	-100...400 kPa
Analogue start point	-1...3 bar	-14.5...43.5 psi	-100...300 kPa
Analogue end point	0...4 bar	0...58 psi	0...400 kPa
In steps of	0.005 bar	0.05 psi	0.5 kPa
Factory setting		ASP = 0.000 bar	AEP = 4.000 bar
<b>Accuracy / deviations</b>			
Repeatability	[X21]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)	
Characteristics deviation	[X21]	< ± 0,2; (Turn down 1:1 , 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]	< ± 0,05; (0...70 °C)	
Temperature coefficient span	[X22]	< ± 0,15; (0...70 °C)	
<b>Response times</b>			
Damping for the analogue output dA	[s]	0.1...100	
Max. response time analogue output	[ms]	40	

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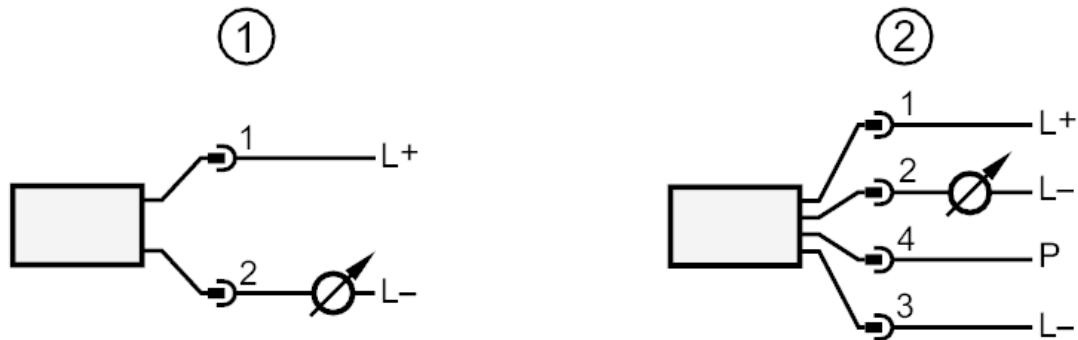
Software / programming		
Parameter setting options		zero point; span
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 69K
Tests / approvals		
EMC		EN 61000-4-2 ESD EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-6 HF conducted
Shock resistance		DIN IEC 68-2-27
Vibration resistance		DIN IEC 68-2-6
MTTF	[ANN]	238
Mechanical data		
Weight	[g]	405
Materials		stainless steel (1.4404 / 316L); PC; PBT; PEI; FKM; PTFE
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4; PTFE
Min. pressure cycles		100 million
Process connection		threaded connection Aseptoflex external thread Aseptoflex
Displays / operating elements		
Display		Display unit function display measured values
Display unit		4 x LED, green alphanumeric display, 4-digit alphanumeric display, 4-digit
		bar; psi; kPa; % of the span
Remarks		
Remarks		The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.
Notes		Please do not use for new projects.; no more adapters available as accessories
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		



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### Connection



- 1: normal operation  
2: programming operation (P = communication via EPS / FDT interface)