

Flush pressure sensor with display

PI-25BRES30-E-ZVG/US /P

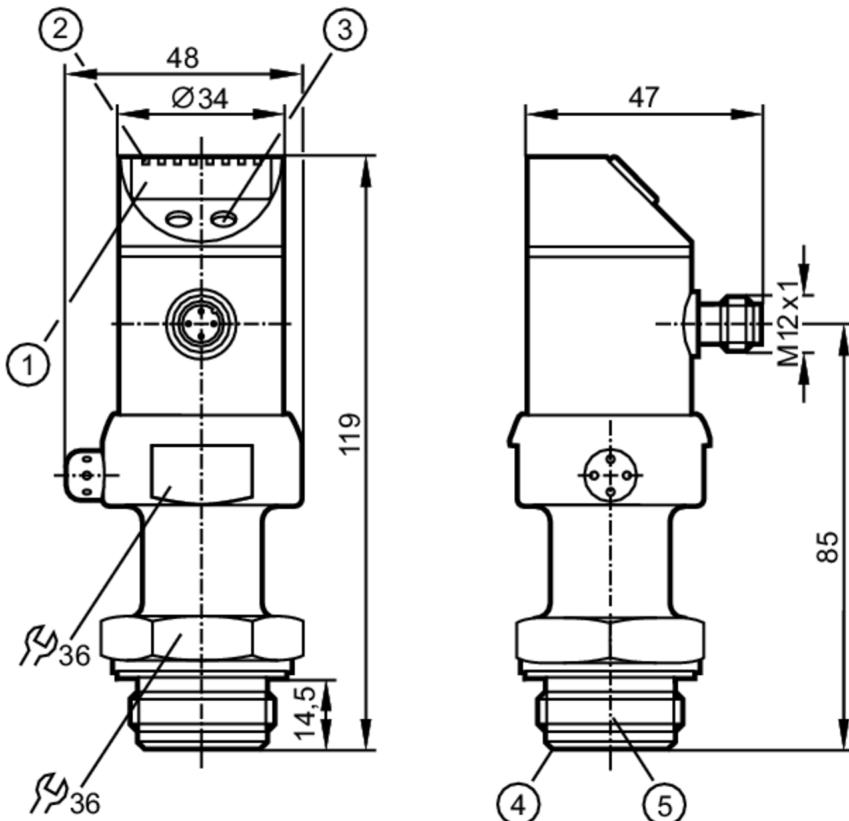
phase-out article

Discontinuation date: 03/31/2024

Alternative articles: PI1008 or PI1708

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	-0.0124...0.25 bar	-12.4...250 mbar
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

PI1098



Flush pressure sensor with display

PI-25BRES30-E-ZVG/US/ /P

Medium temperature	[°C]	-25...125; (145 max. 1h)
Min. bursting pressure	[mbar]	30000
Pressure rating	[mbar]	6000
Type of pressure		relative pressure
No dead space		yes
Electrical data		
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
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1
Outputs		
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
Measuring/setting range		
Measuring range		-0.0124...0.25 bar -12.4...250 mbar
Analogue start point	[mbar]	-12.4...187.4
Analogue end point	[mbar]	50...250
In steps of	[mbar]	0.02
Factory setting		ASP = 0.0 mbar AEP = 250.0 mbar
Accuracy / deviations		
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)
Characteristics deviation	[% of the span]	< ± 0,2; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)
Linearity deviation	[% of the span]	< ± 0,15; (Turn down 1:1)
Hysteresis deviation	[% of the span]	< ± 0,15; (Turn down 1:1)
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,05; (0...70 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,15; (0...70 °C)

PI1098



Flush pressure sensor with display

PI-25BRES30-E-ZVG/US/ /P

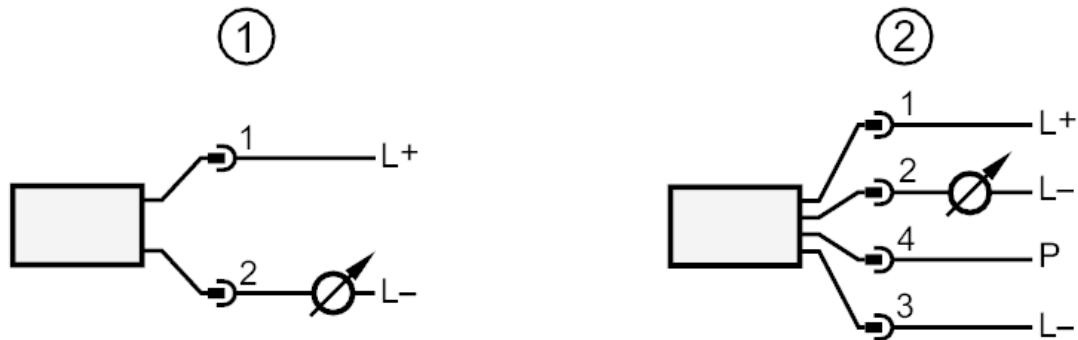
Response times		
Damping for the analogue output dAA	[s]	0.1...100
Max. response time analogue output	[ms]	40
Software / programming		
Parameter setting options		zero point; span
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 69K
Tests / 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 [years]		259
Mechanical data		
Weight [g]		401.5
Materials		stainless steel (316L/1.4404); PC; PBT; PEI; FKM; PTFE
Materials (wetted parts)		ceramics (99.9 % Al2O3); stainless steel (316L/1.4435); 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		mbar; kPa; psi; inH2O; mmWS; % 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		



Flush pressure sensor with display

PI-25BRES30-E-ZVG/US/ /P

Connection



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