

PI1096



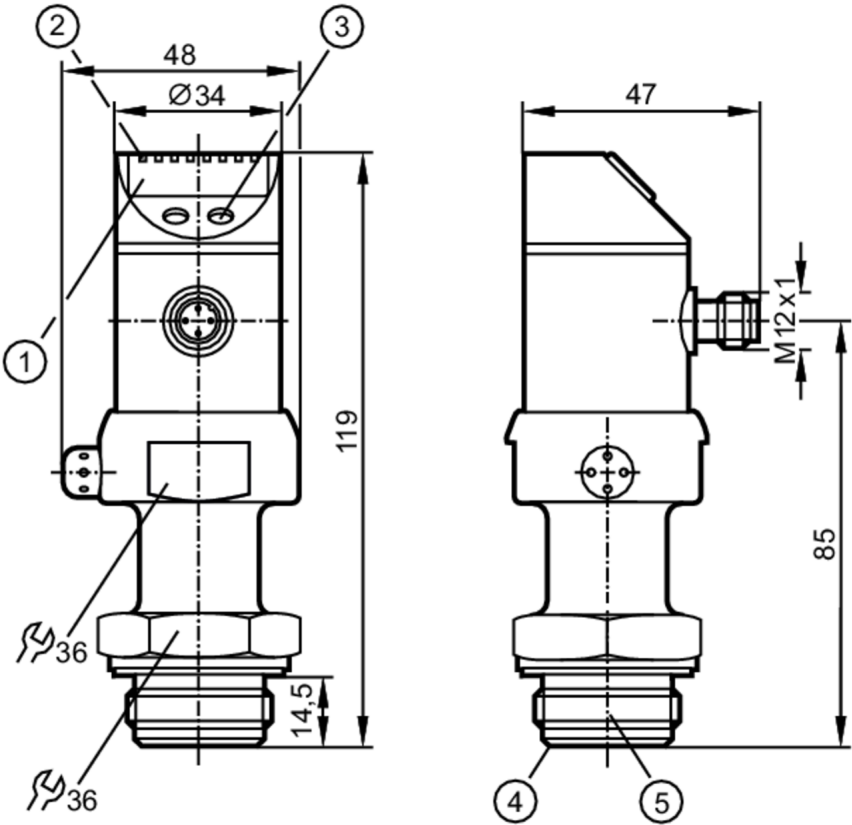
Flush pressure sensor with display

PI-2,5-RES30-E-ZVG/US/ IP

Article to be discontinued
Discontinuation date: 03/31/2024

Alternative articles: PI1005 or PI1706
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 analog outputs: 1	
Measuring range	-0.124...2.5 bar	-124...2500 mbar
Process connection	threaded connection Aseptoflex external thread Aseptoflex	
Application		
System	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	



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Medium temperature	[°C]	-25...125; (145 max. 1h)
Min. bursting pressure	[bar]	50
Pressure rating	[bar]	20
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 analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1
Analog current output [mA]	4...20, invertible; (scalable 1:4)
Max. load [Ω]	300
Overload protection	yes

Measuring/setting range

Measuring range	-0.124...2.5 bar	-124...2500 mbar
Analog start point	[bar]	-0.124...1.88
Analog end point	[bar]	0.5...2.5
In steps of	[bar]	0.002
Factory setting	ASP = 0.000 bar	AEP = 2.500 bar

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)



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Reaction times		
Damping for the analog output dAA	[s]	0.1...100
Max. response time analog 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	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5/1 kV
	EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF	[years]	238
Mechanical data		
Weight	[g]	403.5
Material		stainless steel (1.4404 / 316L); PC; PBT; PEI; FKM; PTFE
Materials (wetted parts)		ceramics (99.9 % Al ₂ O ₃); 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	6 x LED, green
	Function display	alphanumeric display, 4-digit
	Measured values	alphanumeric display, 4-digit
Display unit		bar; kPa; psi; inH ₂ O; mWS; % 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)