

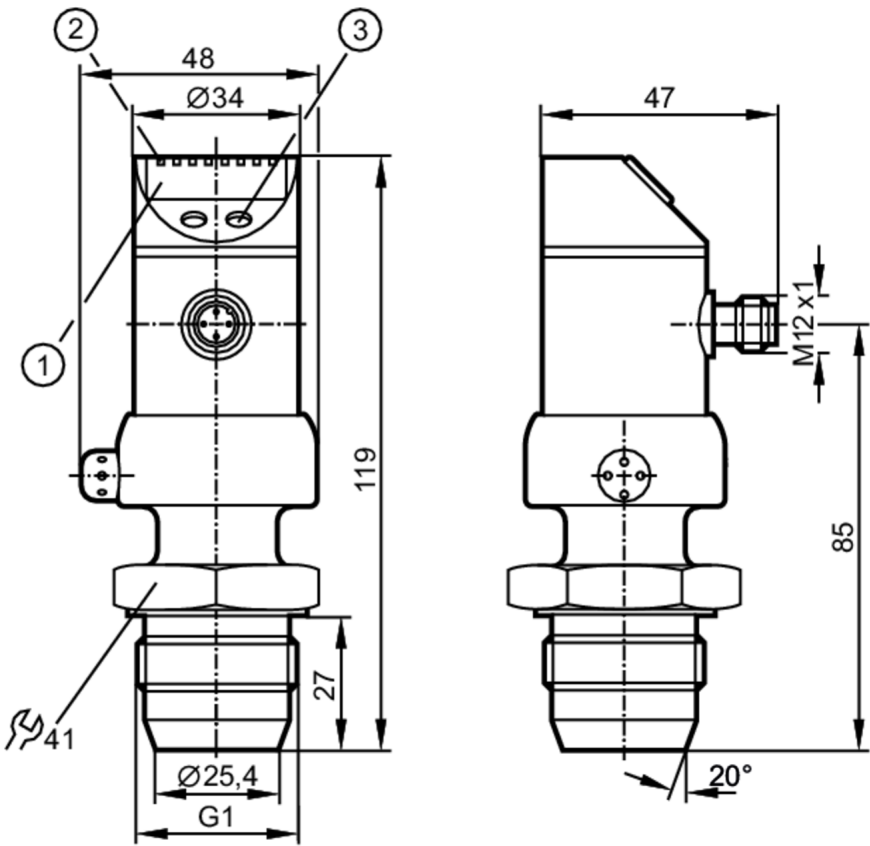


Flush pressure sensor with display

PI-004-REA01-E-ZVG/US/ /P

phase-out article

Alternative articles: PI2895 or PI2795
When selecting an alternative article and accessories please note that technical data may differ!



- 1 alphanumeric display 4-digit
- 2 status LEDs
- 3 programming button



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 G 1 external thread sealing cone		
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		
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		



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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		-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
Accuracy / deviations				
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)		
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		

PI1695



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Protection	IP 67; IP 69K
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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	[ANN]	238

Mechanical data

Weight	[g]	440.6
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 G 1 external thread sealing cone	

Displays / operating elements

Display	Display unit	4 x LED, green
	function display	alphanumeric display, 4-digit
	measured values	alphanumeric display, 4-digit
Display unit	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.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated

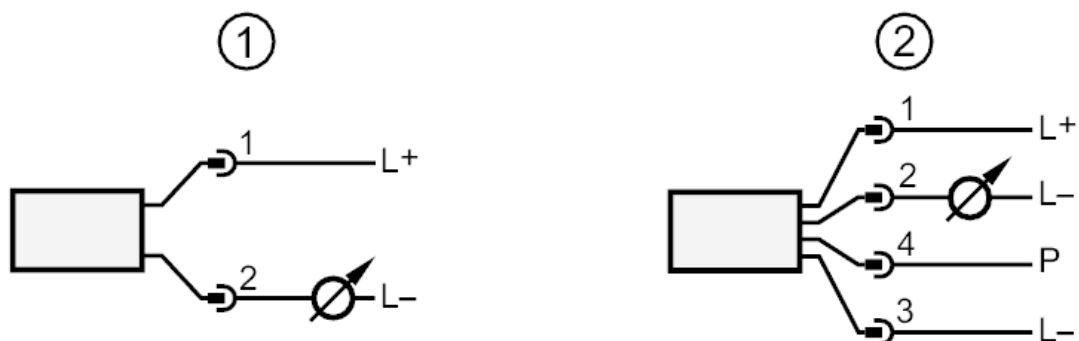




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Connection



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