

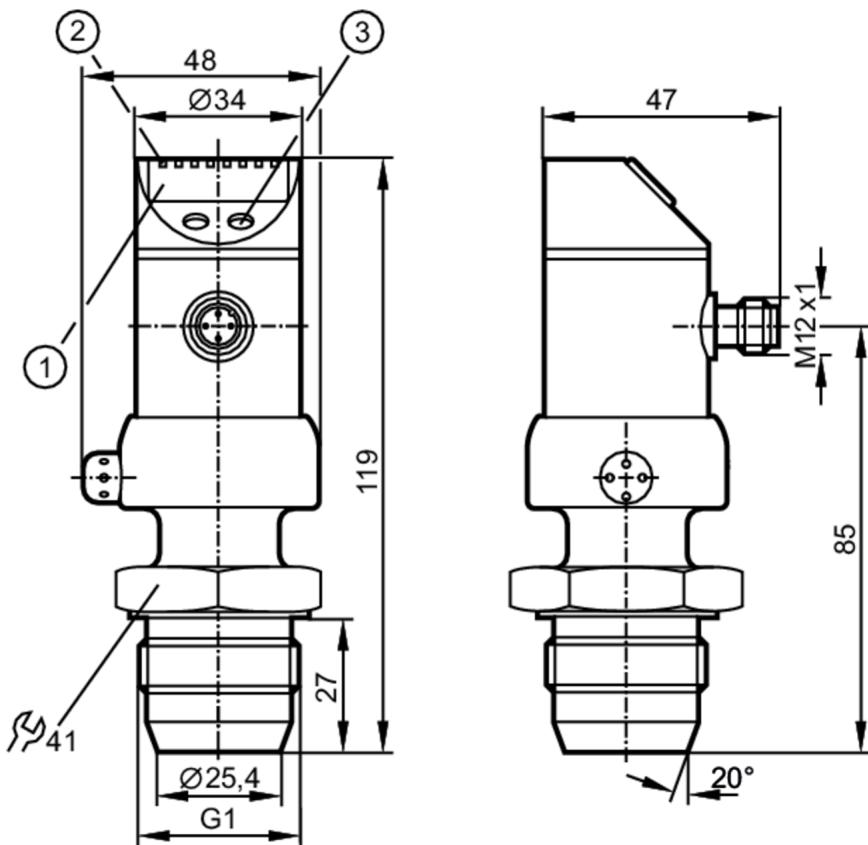
## Flush pressure sensor with display

PI-2,5-REA01-QFRKG/US/ /P

Article no longer available - archive entry

Alternative articles: PI2896 or PI2796

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 digital outputs: 2	
Measuring range	-0.124...2.5 bar	-124...2500 mbar
Process connection	threaded connection G 1 external thread sealing cone	
<b>Application</b>		
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 [bar]	50	
Pressure rating [bar]	20	
Type of pressure	relative pressure	

# PI7696



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No dead space		yes
<b>Electrical data</b>		
Operating voltage	[V]	18...32 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.5
Integrated watchdog		yes
<b>Inputs / outputs</b>		
Number of inputs and outputs		Number of digital outputs: 2
<b>Outputs</b>		
Total number of outputs		2
Output signal		switching signal
Electrical design		PNP/NPN
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	85
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
<b>Measuring/setting range</b>		
Measuring range	-0.124...2.5 bar	-124...2500 mbar
Set point SP	[bar]	-0.12...2.5
Reset point rP	[bar]	-0.124...2.496
In steps of	[bar]	0.002
Factory setting		SP1 = 0.624 bar      rP1 = 0.574 bar SP2 = 1.874 bar      rP2 = 1.824 bar
<b>Accuracy / deviations</b>		
Switch point accuracy	[% of the span]	< ± 0,2; (Turn down 1:1)
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)

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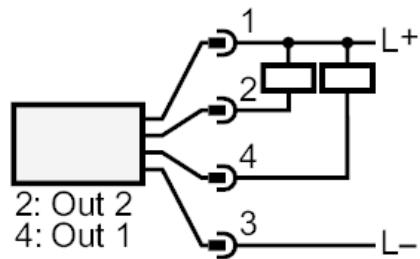
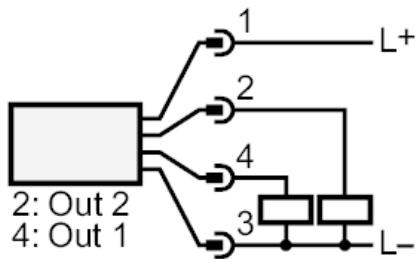
Temperature coefficient zero point [% of the span / 10 K]	< ± 0,05; (0...70 °C)	
Temperature coefficient span [% of the span / 10 K]	< ± 0,15; (0...70 °C)	
<b>Response times</b>		
Response time [ms]		< 6
Damping process value dAP [s]		0...100
<b>Software / programming</b>		
Parameter setting options	hysteresis / window; normally open / normally closed; switching logic; current/voltage output; Damping; adaptation of displayed values; display can be rotated and switched off; Display unit; zero point; span	
<b>Operating conditions</b>		
Ambient temperature [°C]	-25...80	
Storage temperature [°C]	-40...100	
Protection	IP 67; IP 69K	
<b>Tests / approvals</b>		
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	4 kV CD / 8 kV AD 10 V/m 2 kV 0,5/1 kV 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)
<b>Mechanical data</b>		
Weight [g]	442	
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 G 1 external thread sealing cone	
<b>Displays / operating elements</b>		
Display	Display unit switching status measured values parameter setting	6 x LED, green 2 x LED, yellow alphanumeric display, 4-digit alphanumeric display, 4-digit
Display unit	bar; kPa; psi; inH2O; mWS; % of the span	
<b>Remarks</b>		
Remarks	The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.	
Pack quantity	1 pcs.	

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### Electrical connection

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



OUT1	switching output
	Diagnostic output
OUT2	switching output