

# PF2656

## Flush pressure sensor

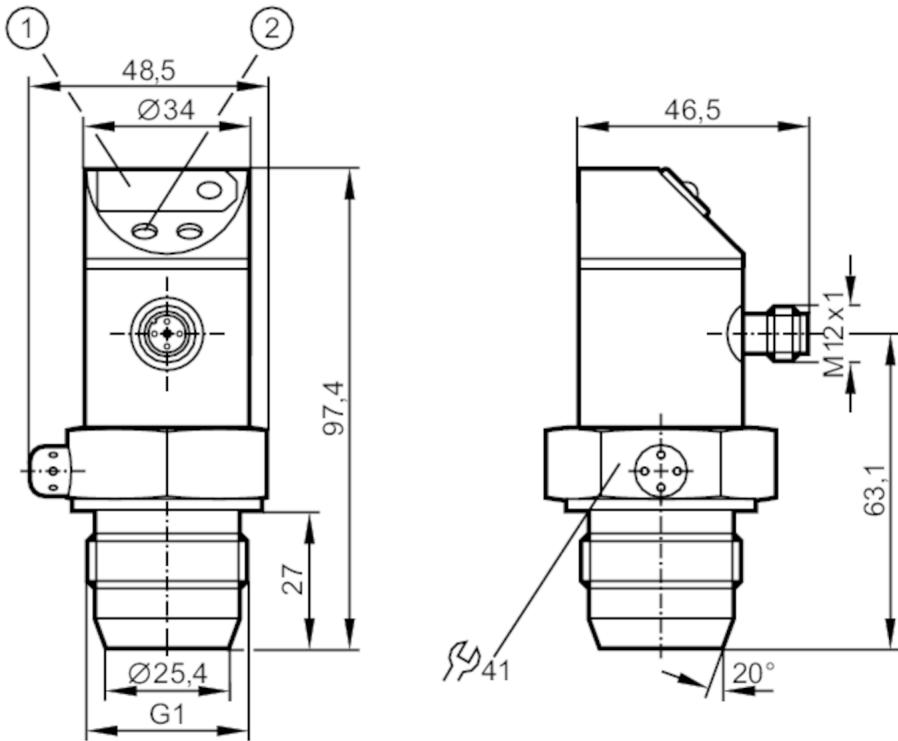
PF-2,5-REA01-MFRKG/US/ /P



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 7-segment LED display  
2 programming button

A<sup>®</sup> CE cUL<sup>®</sup> us EC 1935/2004 EHEDG Certified FDA

### Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1		
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Measuring range	-0.13...2.5 bar	-130...2500 mbar	-1.8...36.3 psi	-13...250 kPa
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Process connection	threaded connection G 1 external thread sealing cone		
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### Application

Special feature	Gold-plated contacts		
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Application	flush mountable for the food and beverage industry		
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Installation	freely rotatable housing 350°		
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Media	viscous media and liquids with suspended particles; liquids and gases		
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Medium temperature [°C]	-25...80		
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Min. bursting pressure	50 bar	725 psi	5000 kPa
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Pressure rating	20 bar	290 psi	2000 kPa
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Type of pressure	relative pressure		
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No dead space	yes		
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### Electrical data

Operating voltage [V]	20...30 DC		
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Current consumption	[mA]	< 60		
Min. insulation resistance	[MΩ]	100; (500 V DC)		
Protection class		III		
Reverse polarity protection		yes		
Power-on delay time	[s]	0.2		
Integrated watchdog		yes		
<b>Inputs / outputs</b>				
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1		
<b>Outputs</b>				
Total number of outputs		2		
Output signal		switching signal; analogue signal; (configurable)		
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]	< 170		
Number of analogue outputs		1		
Analogue current output	[mA]	4...20; (scalable 1:4)		
Max. load	[Ω]	(Ub - 10 V) / 20 mA		
Analogue voltage output	[V]	0...10; (scalable 1:4)		
Min. load resistance	[Ω]	2000		
Short-circuit protection		yes		
Type of short-circuit protection		pulsed		
Overload protection		yes		
<b>Measuring/setting range</b>				
Measuring range	-0.13...2.5 bar	-130...2500 mbar	-1.8...36.3 psi	-13...250 kPa
Set point SP	-0.11...2.5 bar	-1.6...36.3 psi	-11...250 kPa	
Reset point rP	-0.12...2.49 bar	-1.7...36.2 psi	-12...249 kPa	
Analogue start point	-0.13...1.88 bar	-1.8...27.2 psi	-13...188 kPa	
Analogue end point	0.5...2.5 bar	7.3...36.3 psi	50...250 kPa	
In steps of	0.01 bar	0.1 psi	1 kPa	
Factory setting		SP1 = 0.63 bar	rP1 = 0.58 bar	
		ASP = 0.00 bar	AEP = 2.50 bar	
<b>Accuracy / deviations</b>				
Repeatability	[X21]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)		
Characteristics deviation	[X21]	< ± 0,6; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)		
Linearity deviation	[X21]	< ± 0,5; (Turn down 1:1)		
Hysteresis deviation	[X21]	< ± 0,1; (Turn down 1:1)		
Long-term stability	[X21]	< ± 0,1; (Turn down 1:1; per year)		
Temperature coefficient zero point	[X22]	< ± 0,1; (0...80 °C)		

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Temperature coefficient span [X22] < ± 0,2; (0...80 °C)

### Response times

Response time [ms]	< 3
Damping process value dAP [s]	0...4
Damping for the analogue output dAA in steps [s]	0 - 0,1 - 0,5 - 2
Max. response time analogue output [ms]	3

### Software / programming

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
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### Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 67

### 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 61000-4-6 HF conducted	10 V
Shock resistance	DIN IEC 68-2-27	
Vibration resistance	DIN IEC 68-2-6	

### Mechanical data

Weight [g]	373.6
Materials	stainless steel (1.4404 / 316L); PBT; PC; PEI; EPDM/X; FKM
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	switching status	2 x LED, red
	function display	7-segment LED display
	measured values	7-segment LED display
Display unit	bar; psi; kPa	

### Remarks

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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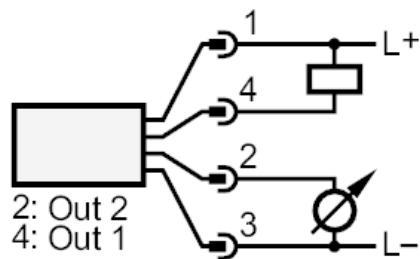
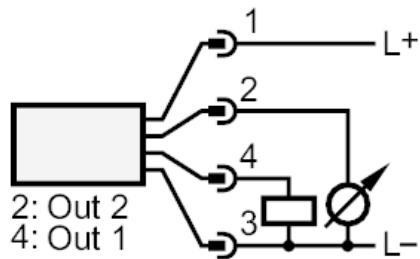
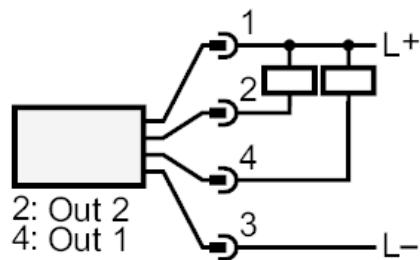
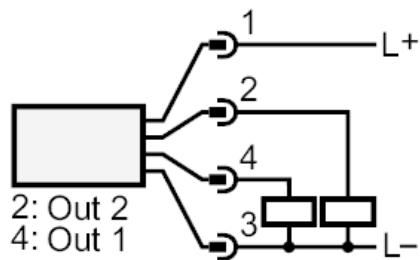
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### Electrical connection

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



### Connection



OUT1

switching output

OUT2

switching output

analogue output