

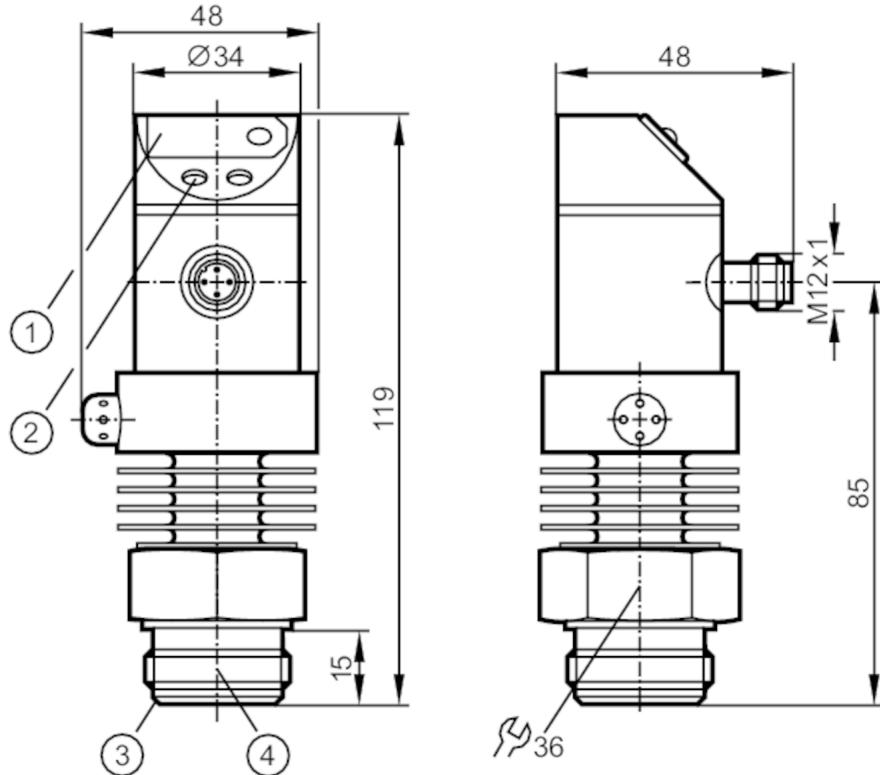
Flush pressure sensor with display

PI-1-1-RES30-KFPKG/US/ IP

Article no longer available - archive entry

Alternative articles: PI2099

When selecting an alternative article and accessories please note that technical data may differ!



- 1 7-segment LED display
 2 Programming button
 3 Aseptoflex sealing edge
 4 Aseptoflex thread

CE

Product characteristics

Number of inputs and outputs Number of digital outputs: 1; Number of analog outputs: 1

Measuring range [bar] -1...1

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

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

PI3009



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Electrical data	
Operating voltage	[V]
Current consumption	[mA]
Min. insulation resistance	[MΩ]
Protection class	III
Reverse polarity protection	yes
Power-on delay time	[s]
Integrated watchdog	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Outputs	
Total number of outputs	2
Output signal	switching signal; analog signal; (configurable)
Electrical design	PNP
Number of digital outputs	1
Max. voltage drop switching output DC	[V]
Permanent current rating of switching output DC	[mA]
Number of analog outputs	2
Analog current output	[mA]
Max. load	[Ω]
Short-circuit protection	500
Type of short-circuit protection	yes (non-latching)
Overload protection	yes
Measuring/setting range	
Measuring range	[bar]
Set point SP	-1...1
Reset point rP	[bar]
In steps of	-0.96...1
	0.02
	< ± 1,5
Accuracy / deviations	
Switch point accuracy	[% of the final value]
Repeatability	[% of the final value]
Characteristics deviation	[% of the final value]
Temperature drift per 10 K	< ± 0,25; (with temperature fluctuations < 10 K)
	< ± 1,0
	< ± 0,3
Reaction times	
Switching frequency for a given set response time of one output	Response time (dAP) [ms]
	3 6 10 17 30 60 125 250 500
	Switching frequency [Hz]
	170 80 50 30 16 8 4 2 1
Response time	[ms]
	at rectangular pressure characteristic; Set point (SPx) = 70 %; Reset point (rPx) = 30 %

PI3009



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Delay time programmable dS, [s]	0, 0,2,...10, 11,...50
Max. response time analog output [ms]	3

Software / programming

Adjustment of the switch point	Programming button
Parameter setting options	hysteresis / window; normally open / closed; switch-on/switch-off delay; Damping

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	50 g (11 ms)	

Mechanical data

Material	stainless steel (1.4404 / 316L); PBT; PC; PA; EPDM/X; FKM
Materials (wetted parts)	stainless steel (1.4404 / 316L); ceramics; PTFE
Min. pressure cycles	100 million
Process connection	threaded connection Aseptoflex external thread Aseptoflex

Displays / operating elements

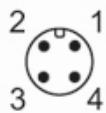
Display	Switching status	LED, red
	Function display	7-segment LED display
	Measured values	7-segment LED display

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



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Connection

