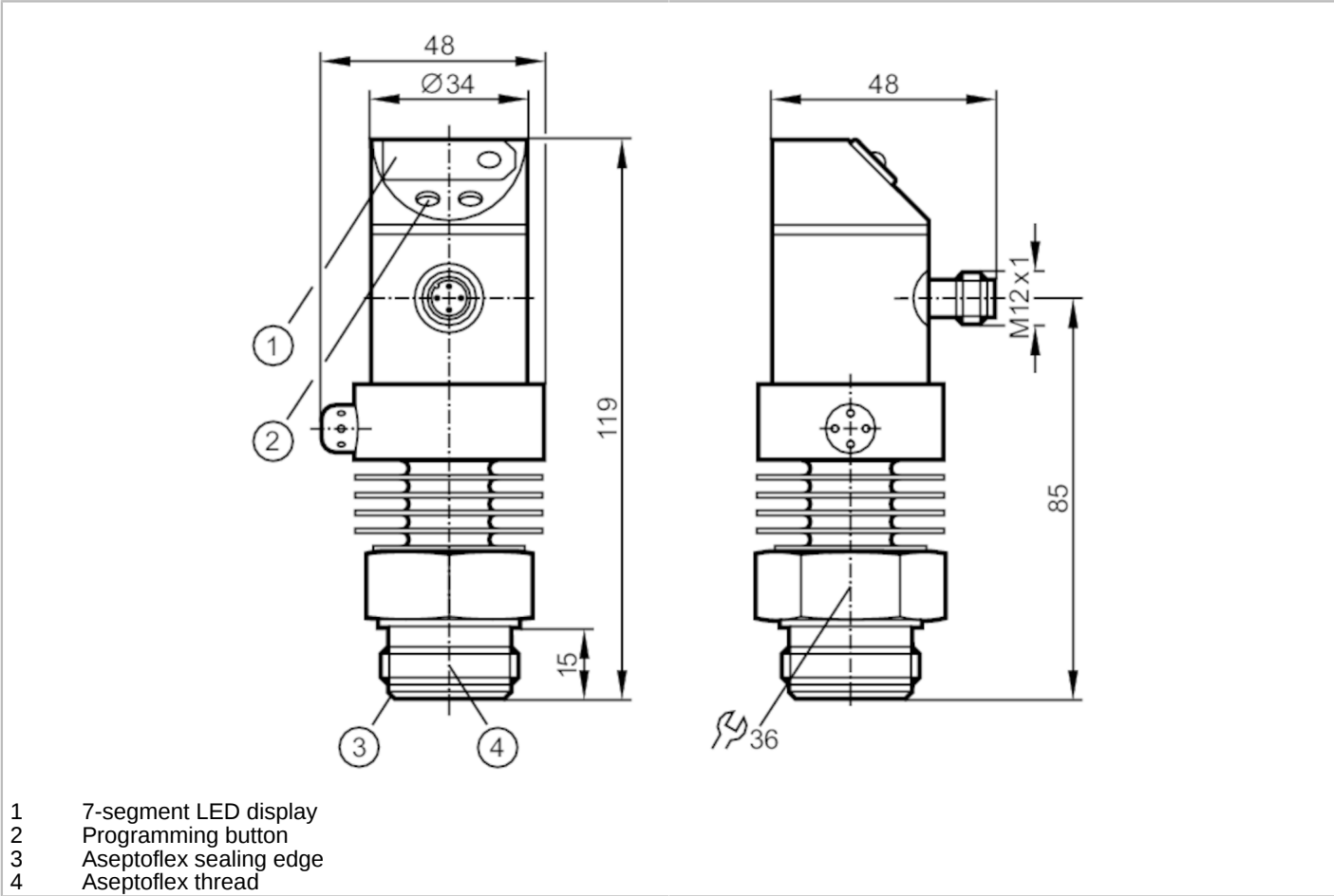




Flush pressure sensor with display

PI-003PRES30-KFPKG/US/ /P

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Product characteristics		
Number of inputs and outputs		Number of digital outputs: 1; Number of analog outputs: 1
Measuring range	[psi]	0...30
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	[psi]	725
Pressure rating	[psi]	290
Type of pressure		relative pressure
No dead space		yes
Electrical data		
Operating voltage	[V]	20...30 DC
Current consumption	[mA]	< 60



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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

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
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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]	2
Permanent current rating of switching output DC [mA]	250
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Measuring/setting range

Measuring range [psi]	0...30
Set point SP [psi]	0.3...30
Reset point rP [psi]	0.1...29.8
In steps of [psi]	0.2

Accuracy / deviations

Switch point accuracy [% of the final value]	< ± 1,5
Repeatability [% of the final value]	< ± 0,25; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the final value]	< ± 1,0
Temperature drift per 10 K	< ± 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 %									
Delay time programmable dS, dr [s]	0, 0,2,...10, 11,...50									
Max. response time analog output [ms]	3									



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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	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
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.	
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		

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Connection

