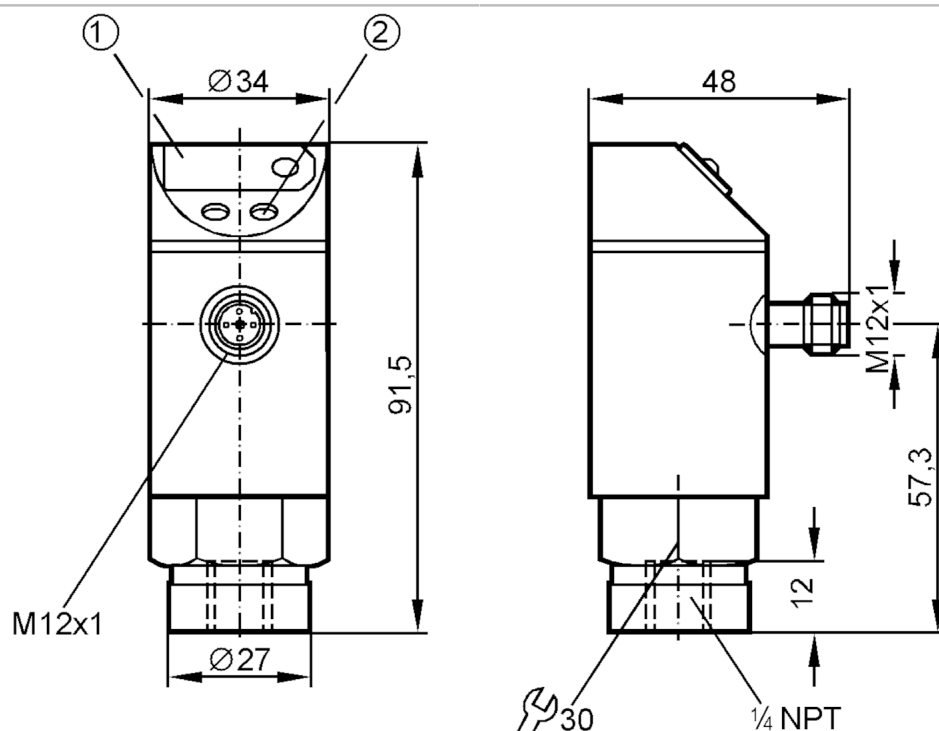




Pressure sensor with display

PN-015PRBN14-HFPKG/US/ IV

Article no longer available - archive entry



- 1 7-segment LED display
- 2 programming button



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1
Measuring range [psi]	0...150
Process connection	threaded connection 1/4" NPT internal thread

Application

Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...80
Min. bursting pressure [psi]	2175
Pressure rating [psi]	700
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	18...30 DC
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



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Inputs / outputs												
Number of inputs and outputs		Number of digital outputs: 1										
Outputs												
Total number of outputs		1										
Output signal		switching signal										
Electrical design		PNP										
Number of digital outputs		1										
Output function		normally open / normally closed; (parameterisable)										
Max. voltage drop switching output DC [V]		2										
Permanent current rating of switching output DC [mA]		250										
Short-circuit protection		yes										
Type of short-circuit protection		pulsed										
Overload protection		yes										
Measuring/setting range												
Measuring range [psi]		0...150										
Set point SP [psi]		3...150										
Reset point rP [psi]		1...148										
In steps of [psi]		2										
Accuracy / deviations												
Switch point accuracy [% of the final value]		< ± 1,0										
Repeatability [% of the final value]		< ± 0,25; (with temperature fluctuations < 10 K)										
Temperature drift per 10 K		< ± 0.3										
Response 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; switch point (SPx) = 70 %; reset point (rPx) = 30 %										
Delay time programmable dS, dr [s]		0, 0,2,...10, 11,...50										
Software / programming												
Adjustment of the switch point		programming button										
Operating conditions												
Ambient temperature [°C]		-25...80										
Storage temperature [°C]		-40...100										
Protection		IP 65										

PN5224



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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 61000-4-6 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	
Materials	EPDM/X; FKM; NBR; PA; PBT; PC; PTFE; stainless steel (304/1.4301)
Materials (wetted parts)	FKM; ceramics; stainless steel (303/1.4305)
Min. pressure cycles	100 million
Process connection	threaded connection 1/4" NPT internal thread

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



Connection

