

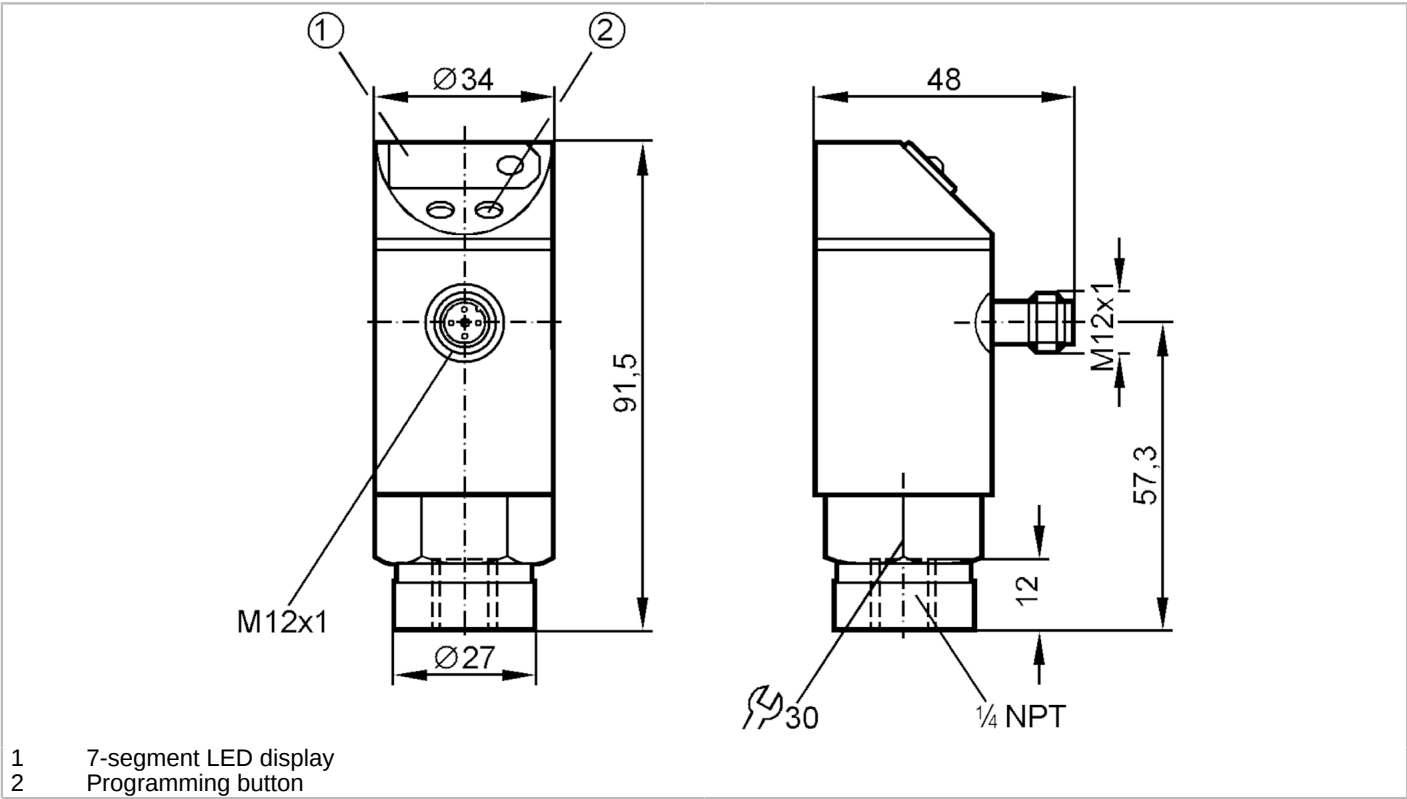
PN5224



Pressure sensor with display

PN-015PRBN14-HFPKG/US/ IV

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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 / closed; (configurable)									
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		yes (non-latching)									
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									
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									
Software / programming											
Adjustment of the switch point		Programming button									
Operating conditions											
Ambient temperature [°C]		-25...80									
Storage temperature [°C]		-40...100									
Protection		IP 65									

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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	
Material	EPDM/X; FKM; NBR; PA; PBT; PC; PTFE; stainless steel (1.4301 / 304)
Materials (wetted parts)	FKM; ceramics; stainless steel (1.4305 / 303)
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

