

PN8224

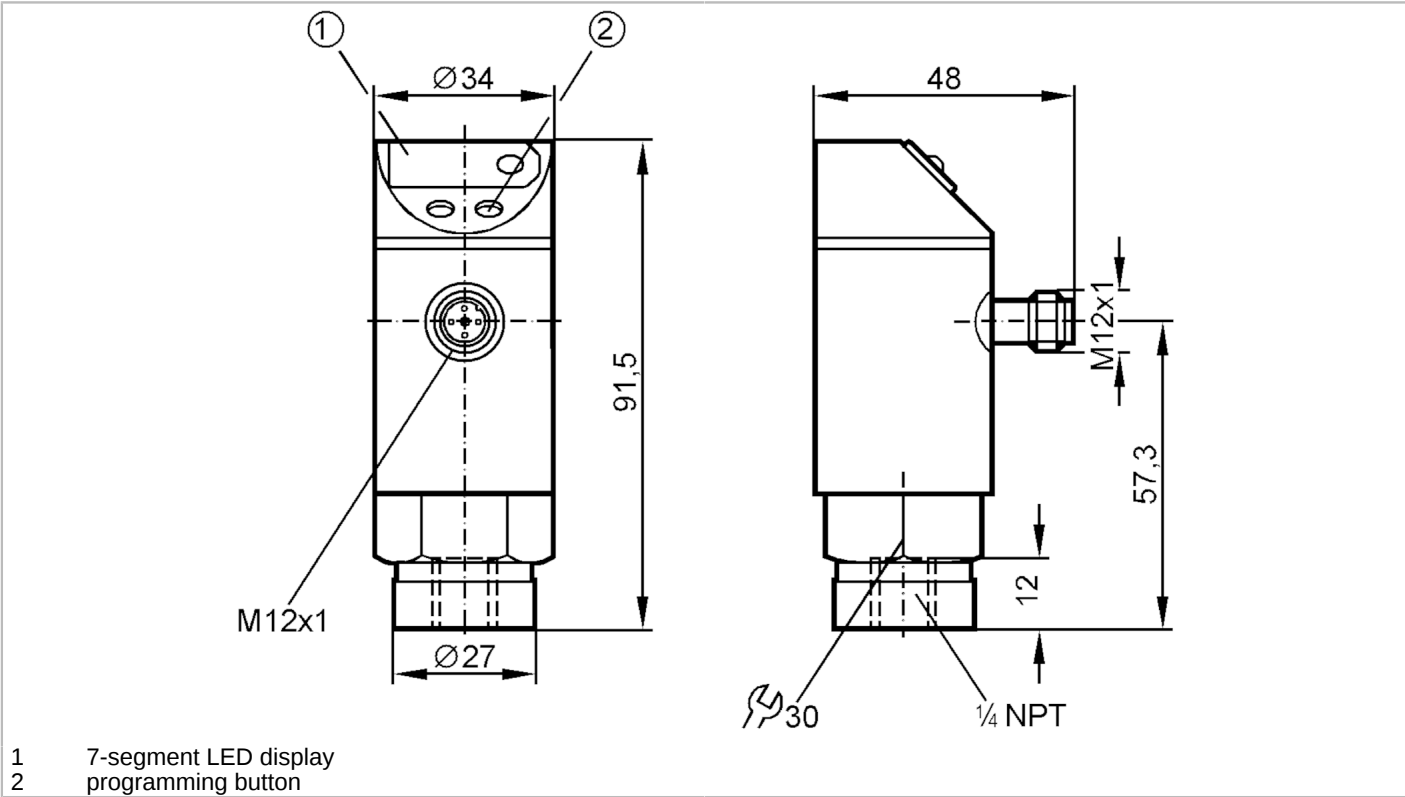


Pressure sensor with display

PN-015PRBN14-KFPKG/US/ IV

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Alternative articles: PN2224
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
Measuring range [psi]	0...150
Process connection	threaded connection 1/4" NPT external thread
Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...80
Min. bursting pressure [psi]	2000
Pressure rating [psi]	700
Electrical data	
Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Reverse polarity protection	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1
Outputs	
Total number of outputs	2



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Output signal	switching signal; analogue 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 analogue outputs	1							
Analogue current output [mA]	4...20							
Max. load [Ω]	500							
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]	7.5...150							
Reset point rP [psi]	4.5...145							
In steps of [psi]	1.5							
Accuracy / deviations								
Switch point accuracy [X16]	< ± 2,0							
Repeatability [X16]	< ± 0,25; (with temperature fluctuations < 10 K)							
Characteristics deviation [X16]	< ± 2,0							
Temperature drift per 10 K	< ± 0.3							
Response times								
Switching frequency for a given set response time of one output	Response[ms] time (dAP)	15	20	30	50	90	170	330
	Switching [Hz] frequency	50	35	30	20	15	9	5
Response time [ms]	at rectangular pressure characteristic; switch point (SPx) = 70 %; reset point (rPx) = 30 %							
Delay time programmable dS, dr [s]	0, 0,2, 0,4,...3							
Software / programming								
Adjustment of the switch point	programming button							
Operating conditions								
Ambient temperature [°C]	-25...80							
Storage temperature [°C]	-40...100							
Protection	IP 65							
Tests / approvals								
EMC	IEC 801/2 ESD				4 kV CD / 8 kV AD			
	IEC 801/3 HF				10 V/m			
	IEC 801/4 Burst				2 kV			
Mechanical data								
Materials	brass nickel-plated; PBT; PC; PA							

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Materials (wetted parts)	brass nickel-plated; ceramics; FKM; NBR; EPDM/X
Min. pressure cycles	100 million
Process connection	threaded connection 1/4" NPT external 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

