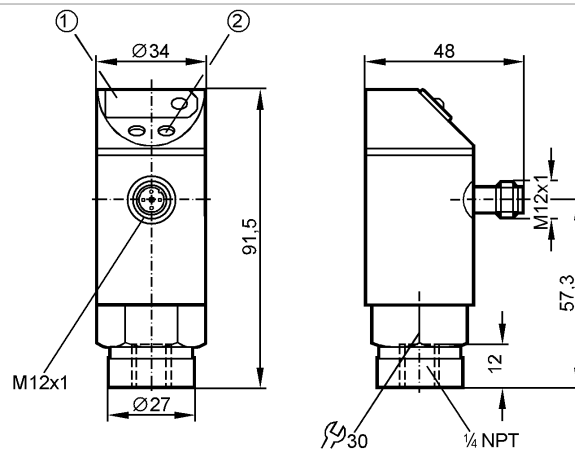


**PN3224**

PN-015PRBN14-KFPKG/US/ N

Pressure sensors

**no longer available - archive entry**  
**replaced by: PN2224**



1: 7-segment LED display  
 2: Programming button



**Product characteristics**

Combined pressure sensor
Quick disconnect
Function programmable
Process connection: 1/4" NPT
Switching output, Analog output
7-segment LED display
Measuring range: 0...150 psi

**Application**

Application	Type of pressure: relative pressure Liquids and gases
Pressure rating [psi]	700
Bursting pressure min. [psi]	2000
Medium temperature [°C]	-25...80

**Electrical data**

Electrical design	DC PNP
Operating voltage [V]	20...30 DC
Current consumption [mA]	< 60
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes

**Outputs**

Output	Switching output, Analog output
Output function	normally open / closed programmable, 4...20 mA analog
Current rating [mA]	250
Voltage drop [V]	< 2
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency for a given set response time of one output *)	Response time (dAP) [ms]
	3    6    10    17    30    60    125    250    500

**PN3224**

PN-015PRBN14-KFPKG/US/ N

**Pressure sensors**

	Switching frequency [Hz]	170	80	50	30	16	8	4	2	1
Analog output		4...20 mA								
Max. load [Ω]		max. 500								
<b>Measuring / setting range</b>										
Measuring range [psi]		0...150								
Setting range										
Set point, SP [psi]		3...150								
Reset point, rP [psi]		1...148								
in steps of [psi]		2								
<b>Accuracy / deviations</b>										
Deviations (% of value of measuring range)										
Switch point accuracy		< ± 1.5								
Characteristics deviation		< ± 1.0								
Repeatability		< ± 0.25								
Temperature drift ( / 10 K)		< ± 0.3								
in the temperature range [°C]		-25...80								
<b>Reaction times</b>										
Power-on delay time [s]		0.2								
Delay time programmable dS, dr [s]		0, 0.2,...10, 11,...50								
Response time analog output [ms]		3								
Integrated watchdog		yes								
<b>Software / programming</b>										
Programming options		hysteresis / window function; N.O. / N.C.; on delay, off delay; damping								
Adjustment of the switch point		Programming button								
<b>Environment</b>										
Ambient temperature [°C]		-25...80								
Storage temperature [°C]		-40...100								
Protection		IP 65								
<b>Tests / approvals</b>										
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)							
<b>Mechanical data</b>										
Process connection		¼" NPT								
Materials (wetted parts)		FPM (Viton); ceramics; stainless steel (303S22)								
Housing materials		EPDM/X (Santoprene); FPM (Viton); PA; PBT (Pocan); PC (Makrolon); stainless steel (304S15)								
Switching cycles min.		100 million								
Weight [kg]		0.285								
<b>Displays / operating elements</b>										
Display		Switching status	LED red							
		Function display	7-segment LED display							

**PN3224**

PN-015PRBN14-KFPKG/US/ N

**Pressure sensors**

Measured values 7-segment LED display

**Electrical connection**

Connection

M12 connector; gold-plated contacts

**Wiring**

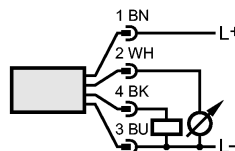
Programming of the output function:

Hno = hysteresis / N.O.

Hnc = hysteresis / N.C.

Fno = window function / N.O.

Fnc = window function / N.C.



**Remarks**

Remarks

\*) at rectangular pressure characteristic and setting:  
switch-on point (SPx) = 70 %, switch-off point (rPx) = 30 %

Pack quantity

[piece]

1

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