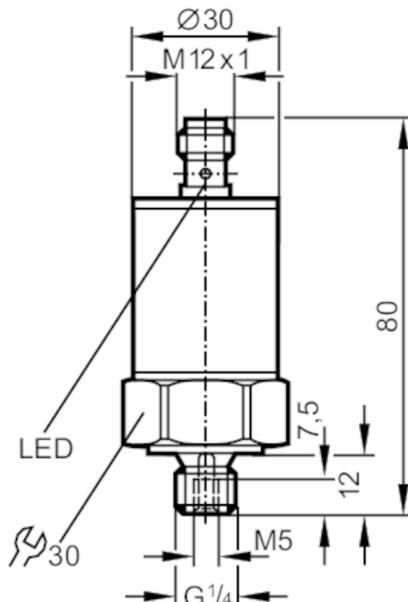


## Pressure switch with ceramic measuring cell

PD-010-RBG14-QFRKG/US/ /E

Article no longer available - archive entry



## Product characteristics

Number of inputs and outputs	Number of digital outputs: 2		
Measuring range	0...10 bar	0...145 psi	0...1000 kPa
Process connection	threaded connection G 1/4 external thread		

## Application

Special feature	Gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Cannot be used for	oils		
Medium temperature [°C]	150 bar	2175 psi	15000 kPa
Min. bursting pressure	50 bar	725 psi	5000 kPa
Pressure rating	relative pressure		
Type of pressure			

## Electrical data

Operating voltage [V]	9.6...30 DC; (PP2000 with sensor: > 18)		
Current consumption [mA]	< 45		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	0.3		

## Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2		
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# PD7024



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### Outputs

Total number of outputs		2
Output signal		switching signal
Electrical design		PNP/NPN
Number of digital outputs		2
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	0...10 bar	0...145 psi	0...1000 kPa
Set point SP	0.1...9.99 bar	1...145 psi	10...999 kPa
Reset point rP	0.05...9.94 bar	1...144 psi	5...994 kPa
In steps of	0.01 bar	1 psi	1 kPa
Factory setting		OU1 = Hno SP1 = 2.50 bar	OU2 = tch rP1 = 2.302 bar

### Accuracy / deviations

Switch point accuracy [X21]		< ± 1,5
Repeatability [X21]		< ± 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation [X21]		< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line)
Linearity deviation [X21]		< ± 0,5
Hysteresis deviation [X21]		< ± 0,1
Long-term stability [X21]		< ± 0,1; (per year)
Temperature coefficient zero point [X22]		< ± 0,2; (-25...80 °C)
Temperature coefficient span [X22]		< ± 0,3; (-25...80 °C)

### Response times

Response time [ms]		< 3
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### Software / programming

Adjustment of the switch point		programming unit / teach function
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### Interfaces

Communication interface		EPS
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### Operating conditions

Ambient temperature [°C]		-25...80
Storage temperature [°C]		-40...100
Protection		IP 67

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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		
Weight	[g]	0.194
Materials		stainless steel (1.4301 / 304); PA
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; EPDM
Min. pressure cycles		100 million
Process connection		threaded connection G 1/4 external thread

Displays / operating elements		
Display	operation	LED, green
	switching status	2 x LED, yellow
Teach function		yes

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		



Connection		