

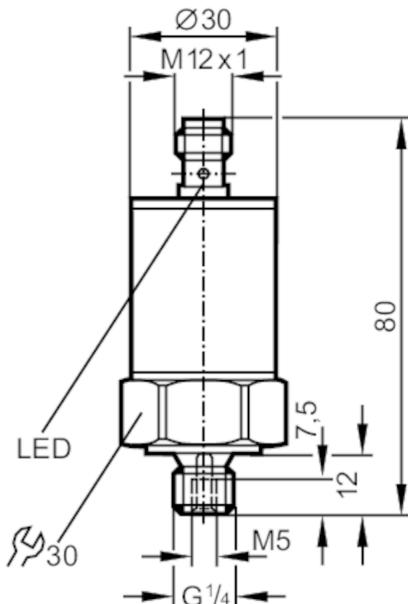
Pressure switch with ceramic measuring cell

PP-2,5-RBG14-QFRKG/US/ IV

Article no longer available - archive entry

Alternative articles: PP7556

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: 2		
Measuring range	0...2.5 bar	0...36.3 psi	0...250 kPa
Process connection	threaded connection G 1/4 external thread Internal thread:M5		

Application

System	gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...80		
Min. bursting pressure	50 bar	725 psi	5000 kPa
Pressure rating	20 bar	290 psi	2000 kPa
Type of pressure	relative 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		

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Inputs / outputs			
Number of inputs and outputs		Number of digital outputs: 2	
Outputs			
Total number of outputs		2	
Output signal		switching signal	
Electrical design		PNP/NPN	
Number of digital outputs		2	
Output function		normally open / closed; (configurable)	
Max. voltage drop switching output DC	[V]	2	
Permanent current rating of switching output DC	[mA]	250	
Switching frequency DC	[Hz]	< 170	
Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
Measuring/setting range			
Measuring range	0...2.5 bar	0...36.3 psi	0...250 kPa
Set point SP	0.03...2.5 bar	0.4...36.3 psi	3...250 kPa
Reset point rP	0.02...2.49 bar	0.2...36.2 psi	2...249 kPa
In steps of	0.01 bar	0.1 psi	1 kPa
Accuracy / deviations			
Switch point accuracy [% of the span]		< ± 1,5	
Repeatability [% of the span]		< ± 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]		< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)	
Linearity deviation [% of the span]		< ± 0,5	
Hysteresis deviation [% of the span]		< ± 0,1	
Long-term stability [% of the span]		< ± 0,1; (per year)	
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,2; (-25...80 °C)	
Temperature coefficient span [% of the span / 10 K]		< ± 0,3; (-25...80 °C)	
Reaction times			
Response time	[ms]	< 3	
Damping process value dAP	[s]	0...4	
Software / programming			
Adjustment of the switch point		programming unit / teach function	

PP7026



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Interfaces				
Communication interface		EPS		
Operating conditions				
Ambient temperature	[°C]	-25...80		
Storage temperature	[°C]	-40...100		
Protection		IP 67		
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	stainless steel (1.4301 / 304); PA			
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM			
Min. pressure cycles	100 million			
Process connection	threaded connection G 1/4 external thread Internal thread:M5			
Restrictor element integrated	no (can be retrofitted)			
Displays / operating elements				
Display	Power	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				
				

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Connection

