Pressure switch with ceramic measuring cell

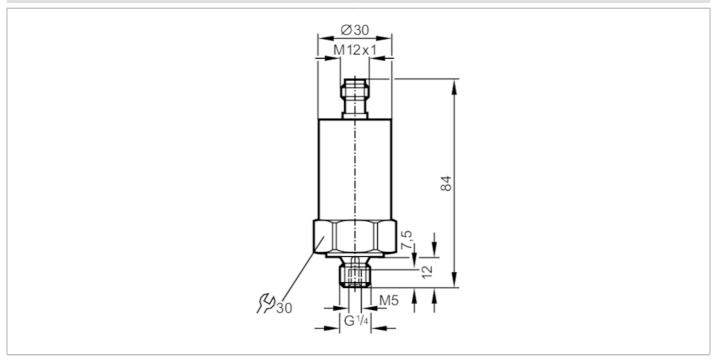
PP-010-RBG14-QFRKG/US/ /V



Article no longer available - archive entry

Alternative articles: PP7554

When selecting an alternative article and accessories please note that technical data may differ!





Product characteristics						
Number of inputs and output	S	Number of digital outputs: 2				
Measuring range		010 bar	0145 psi	01000 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]	-2590; (on request: -4090 °C)				
Min. bursting pressure		150 bar	2175 psi	15000 kPa		
Pressure rating		50 bar	725 psi	5000 kPa		
Type of pressure		relative pressure				
Electrical data						
Operating voltage	[V]	9.630 DC				
Current consumption	[mA]	< 45				
Min. insulation resistance	$[M\Omega]$	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 [V] output DC	2			
Permanent current rating of [mA] switching output DC	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	010 bar	0145 psi	01000 kPa	
Set point SP	0.19.99 bar	1145 psi	10999 kPa	
Reset point rP	0.059.94 bar	1144 psi	5994 kPa	
In steps of	0.01 bar	1 psi	1 kPa	
Accuracy / deviations				
Switch point accuracy	< ± 1,5			
[% of the span] Repeatability [% of the span]	4. O. 1. (with temperature fluctuations < 10 I/)			
	< ± 0,1; (with temperature fluctuations < 10 K)			
Characteristics deviation [% of the span]	$<\pm$ 0,25 (BFSL) / $<\pm$ 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)			
Reaction times				
Response time [ms]		< 3		
Damping process value dAP [s]		04		
Software / programming		J4		
Adjustment of the switch point	programming unit / teach function			
Interfaces				
Communication interface	EPS			
Operating conditions				
Ambient temperature [°C]		-4090		
Storage temperature [°C]		-40100		
Protection IP 68; (BFSL = Best Fit Straight Line; LS = limit value setting)				
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Tests / approvals			
EMC	radiation of interference	according to the automotive directive 1995/54/EC	
	noise immunity	according to the automotive directive 1995/54/EC annex IX 150 V/m	
	HF radiated		
	pulse resistance	ISO 7637	
	supply	ISO 7637-2 (Pulse 1a, 1b, 2, 3a, 3b, 4, 6, 7)	
	signal cables	ISO 7637-3 (Pulse a und b)	
	noise immunity	EN 61000-6-2	
	EN 61000-4-2 ESD	8/15 kV	
	EN 61000-4-3 HF radiated	100 V/m	
	EN 61000-4-4 Burst	2 kV	
	EN 61000-4-6 HF conducted	10 V	
Shock resistance	DIN IEC 60068-2-27 / DIN IEC 60068-2-29	1000 g	
Vibration resistance	DIN IEC 68-2-6	20 g (102000 Hz)	
Mechanical data			
Material	stainless steel (1.4301 / 304); FKM; PEI		
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			

Electrical connection

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



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Connection

