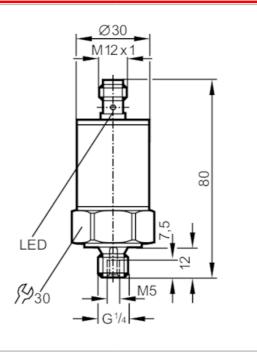
Pressure switch with ceramic measuring cell





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Alternative article: PP7551 or PP0521 When selecting an alternative article and accessories please note that technical data may differ!; PP755x = DC pnp, PP052x = DC npn – When selecting an alternative article and accessories please note that technical data may differ!





Application				
Media		liquids and gases		
Conditionally suitable for		For gaseous media the application is limited to max. 25 bar.		
Medium temperature	[°C]		-2580	
Pressure rating		400 bar 5800 psi 40 MPa		
Min. bursting pressure		850 bar 12300 psi 85 MPa		
Type of pressure		relative pressure		
Electrical data				
Operating voltage	[V]	9.630 DC; (PP2000 with sensor: > 18)		
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		
Inputs / outputs				
Number of inputs and outputs			Number of digital outputs: 2	

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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 / 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	0250 bar	03630 psi	025 MPa
Set point SP	3250 bar	403630 psi	0.325 MPa
Reset point rP	2249 bar	203610 psi	0.224.9 MPa
in steps of	1 bar	10 psi	0.1 MPa
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]	$< \pm 0.25$ (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]	$< \pm 0.1$; (per year)		
Temperature coefficient zero point [% of the span / 10 K]	< ± 0,2; (-2580 °C)		
Temperature coefficient span [% of the span / 10 K]	< ± 0,3; (-2580 °C)		
Reaction times			
Response time [ms]	< 3		
Damping for the switching output dAP [s]	04		
Software / programming			
Adjustment of the switch point	programming unit / teach function		
Interfaces			
Communication interface		EPS	

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Operating conditions				
Ambient temperature	[°C]		-2580	
Storage temperature	[°C]		-40100	
Protection			IP 67	
Tests / approvals				
		EN C1000 4 2 ECD		4 14 / CD / 0 14 / AD

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
DIN IEC 68-2-27	50 g (11 ms)
DIN IEC 68-2-6	20 g (102000 Hz)
	EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-6 HF conducted DIN IEC 68-2-27

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 threadM5	

Displays / operating elements		
Dianley	Power	LED, green
Display	Switching status	2 x LED, yellow
Teach function	yes	

Teach function	yes
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated

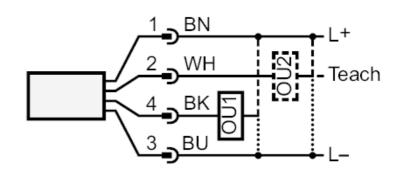


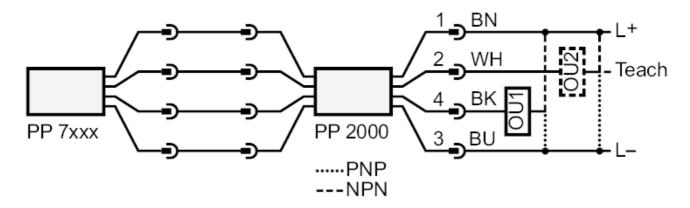
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PP-250-SBG14-QFRKG/US/ /V



Connection





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