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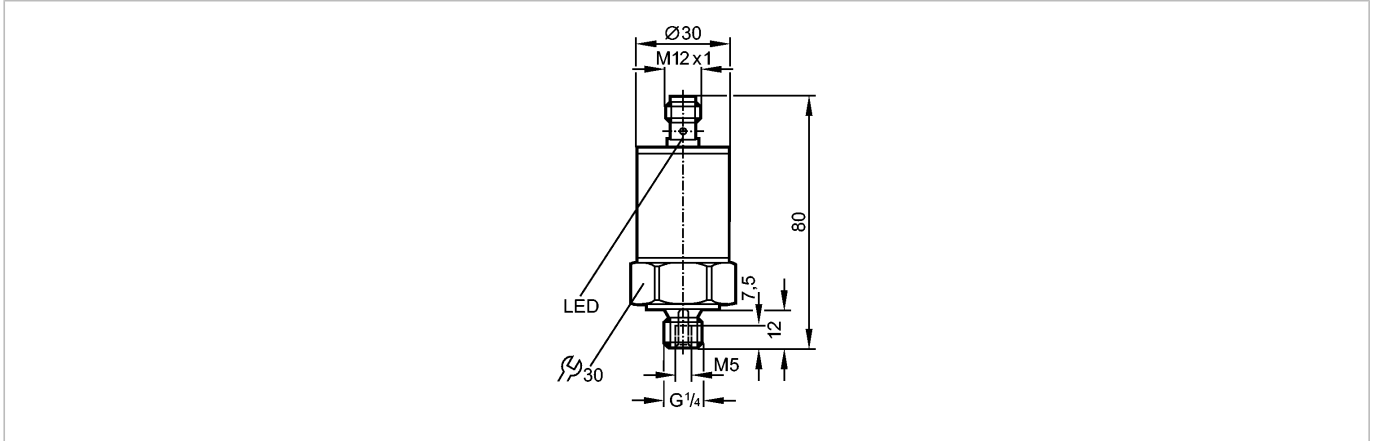
**efectorsoo**

PP7026



PP-2.5-RBG14-QFRKG/US/ I/V

Pressure sensors



Product characteristics

Electronic pressure sensor

Quick disconnect

Programmable via EPS interface

Adjustment of the switch point by teach function

Process connection: G 1/4 A / M5 I

2 switching outputs or  
1 switching output  
+ 1 teach input

Measuring range: 0...2.5 bar / 0...36.3 psi / 0...250 kPa

Application

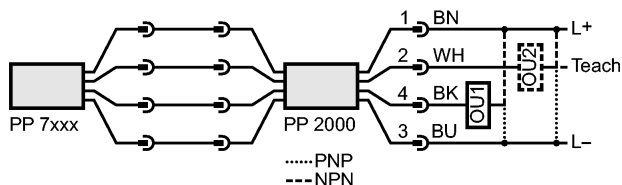
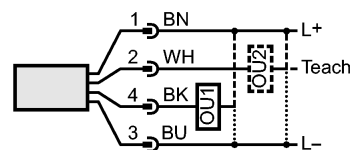
Application	Type of pressure: relative pressure Liquids and gases		
Pressure rating	20 bar	290 psi	2000 kPa
Bursting pressure min.	50 bar	725 psi	5000 kPa
Medium temperature [°C]	-25...80		
Electrical data	DC PNP/NPN		
Electrical design	9.6...30 DC 1)		
Operating voltage [V]	< 45		
Current consumption [mA]	> 100 (500 V DC)		
Insulation resistance [MΩ]	III		
Protection class	yes		
Reverse polarity protection	yes		
Outputs	2 switching outputs or 1 switching output + 1 teach input		
Output	2 x normally open / closed programmable		
Output function	2 x 250		
Current rating [mA]	< 2		
Voltage drop [V]	yes (non-latching)		
Short-circuit protection	yes		
Overload protection	≤ 170		
Switching frequency [Hz]	0...2.5 bar		
Measuring / setting range	0...36.3 psi		
Measuring range	0...250 kPa		
Setting range	0.03...2.50 bar		
Set point, SP	0.4...36.3 psi		
Reset point, rP	3...250 kPa		
	0.02...2.49 bar		
	0.2...36.2 psi		
	2...249 kPa		

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	0.01 bar	0.1 psi	1 kPa
in steps of			
Accuracy / deviations			
Accuracy / deviations (in % of the span)			
Switch point accuracy		< ± 1.5	
Characteristics deviation *)		< ± 0.25 (BFSL) / < ± 0.5 (LS)	
Linearity		< ± 0.5	
Hysteresis		< ± 0.1	
Repeatability **)		< ± 0.1	
Long-term stability ***)		< ± 0.1	
Temperature coefficients (TEMPCO) in the temperature range -25...80° C (in % of the span per 10 K)			
Greatest TEMPCO of the zero point		< ± 0.2	
Greatest TEMPCO of the span		< ± 0.3	
Reaction times			
Power-on delay time [s]		0.3	
Min. response time switching output [ms]		3	
Damping for the switching output (dAP) [s]		0...4	
Software / programming			
Adjustment of the switch point		programming unit / teach function	
Environment			
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			
Process connection		G ¼ A / M5 I	
Materials (wetted parts)		stainless steel (303S22); ceramics; FPM (Viton)	
Housing materials		stainless steel (304S15); PA	
Switching cycles min.		100 million	
Weight [kg]		0.196	
Displays / operating elements			
Display		Power LED green	
		Switching status 2 x LED yellow	
Electrical connection			
Connection		M12 connector; gold-plated contacts	

## Wiring

Pin connection when delivered:  
 Pin 2 = Teach input  
 Pin 4 = switching output/  
 communication with the  
 programming unit (e.g. PP2000)



Remarks

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Remarks

- 1) Operating voltage for PP2000 with sensor: min. 18 V DC
- \*) BFSL = Best Fit Straight Line / LS = Limit Value Setting
- \*\*\*) with temperature fluctuations < 10 K
- \*\*\*) in % of the span per year

Pack quantity [piece]

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