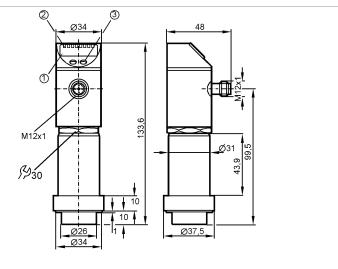
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PY9000

PY-600-SE MFRKG/US/ /V



Pressure sensors



- 4-digit alphanumeric display
 LEDs (display unit / switching status)
 Programming button



Made in Germany

Product characteristics
Pressure sensor 600 bar for homogenisers
Quick disconnect
Zero and span adjustable
Function programmable
Process connection: Clamp fitting
2 outputs OUT1 = switching output OUT2 = switching output or analog output
4-digit alphanumeric display

Measuring range: 0600 b	ar	
Application		
Application		Type of pressure: relative pressure Liquids and gases For gaseous media the application is limited to max. 25 bar
Pressure rating	[bar]	800
Bursting pressure min.	[bar]	1200
Medium temperature	[°C]	-25100 (145 max 1h)
Electrical data		
Electrical design		DC PNP/NPN

Electrical data			
Electrical design		DC PNP/NPN	
Operating voltage	[V]	2030 DC	
Current consumption	[mA]	< 65	
Insulation resistance	[MΩ]	> 100 (500 V DC)	
Protection class		III	
Reverse polarity protection	1	yes	

Outputs	
Output	2 outputs
	OUT1 = switching output
	OUT2 = switching output or analog output
Output function	2 x normally open / closed programmable or 1 x normally open / closed programmable + 1 x analog (420 mA / 010 V; programmable 1:4)

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PY9000

Protection

Tests / approvals



PY9000			
PY-600-SE MFRKG/US/ /V		Pressure sensors	
Current rating	[mA]	2 x 250	
Voltage drop	[V]		
Short-circuit protection		Yes (non-latching)	
Overload protection		yes	
Switching frequency	[Hz]	≤ 170	
Analog output		420 mA / 010 V	
Max. load	[Ω]	420 mA: max. (Ub - 10 V) x 50 / 010 V: min. 2000	
Measuring / setting range	e		
Display unit		bar, psi, MPa	
Measuring range	[bar]	0600	
Setting range			
Set point, SP	[bar]	6600	
Reset point, rP	[bar]	3597	
Analog start point, ASP	[bar]	0240	
Analog end point, AEP	[bar]	150600	
in steps of	[bar]	3	
Accuracy / deviations			
Accuracy / deviations (in % of the span) Turn dow	vn 1:1		
Switch point accuracy		< ± 1.0	
Characteristics deviation *)		< ± 1.0	
Linearity		< ± 0.5	
Hysteresis		< ± 1.0	
Repeatability **)		< ± 0.25	
Long-term stability ***)		< ± 0.25	
Temperature coefficients (T	EMPCO) ir	n the temperature range 080° C (in % of the span per 10 K)	
Greatest TEMPCO of the z	ero point	< ± 0.2	
Greatest TEMPCO of the s	pan	< ± 0.2	
Reaction times			
Power-on delay time	[s]	0.3	
Min. response time switchir output	ng [ms]	3	
Damping for the switching (dAP)	output [s]	04	
Damping for the analog out (dAA)	tput [s]	0 - 0; 1 - 0; 5 - 2	
Response time analog outp	out [ms]	3	
Integrated watchdog		yes	
Software / programming			
Programming options		hysteresis / window function; N.O. / N.C; output polarity; current / voltage outputs; damping; calibration of displayed values; display can be rotated / deactivated; display unit	
Environment			
Ambient temperature	nbient temperature [°C] -2580		
Storage temperature	[°C]		
5 :		ID 67	

IP 67

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PY9000

PY-600-SE MFRKG/US/ /V



Pressure sensors

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 61000-4-5 Surge:	0.5/1 kV	
		EN 61000-4-6 HF conducted:	10 V	
Shock resistance		DIN EN 60068-2-27:	50 g (11 ms)	
Vibration resistance		DIN EN 60068-2-6:	20 g (102000 Hz)	
MTTF	[Years]	145		
Mechanical data				
Process connection		Clamp fitting		
Materials (wetted parts)		stainless steel 316L / 1.4404; ceramics (99.9 % Al2 O3); FKM		
Housing materials		stainless steel (304S15); stainless steel 316L / 1.4404; PC (Makrolon); PBT (Pocan);		

[kg]

Display

Weight

Display unit 3 x LED green Switching status 2 x LED yellow

Function display 4-digit alphanumeric display Measured values 4-digit alphanumeric display

Electrical connection

Switching cycles min.

Connection

M12 connector; gold-plated contacts

PA; FPM (Viton); EPDM/X (Santoprene)

50 million

0.366

Wiring

Programming of the output function (OUT1 / OUT2):

Hno = hysteresis / normally open Hnc = hysteresis / normally closed

Fno = window function / normally open

Fnc = window function / normally closed

Complementary outputs:

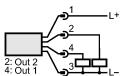
output 1: = Hno, output 2: = Hnc

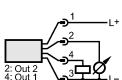
(with the same SP / rP)

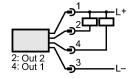
Programming of the analog output (OUT2):

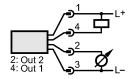
I = current output (4...20 mA) U = voltage output (0...10 V)











Remarks			
Remarks		 *) linearity, incl. hysteresis and repeatability; (limit value setting to DIN 16086) **) with temperature fluctuations < 10 K ***) in % of the span per year 	
Pack quantity	[niece]	1	