PY9000

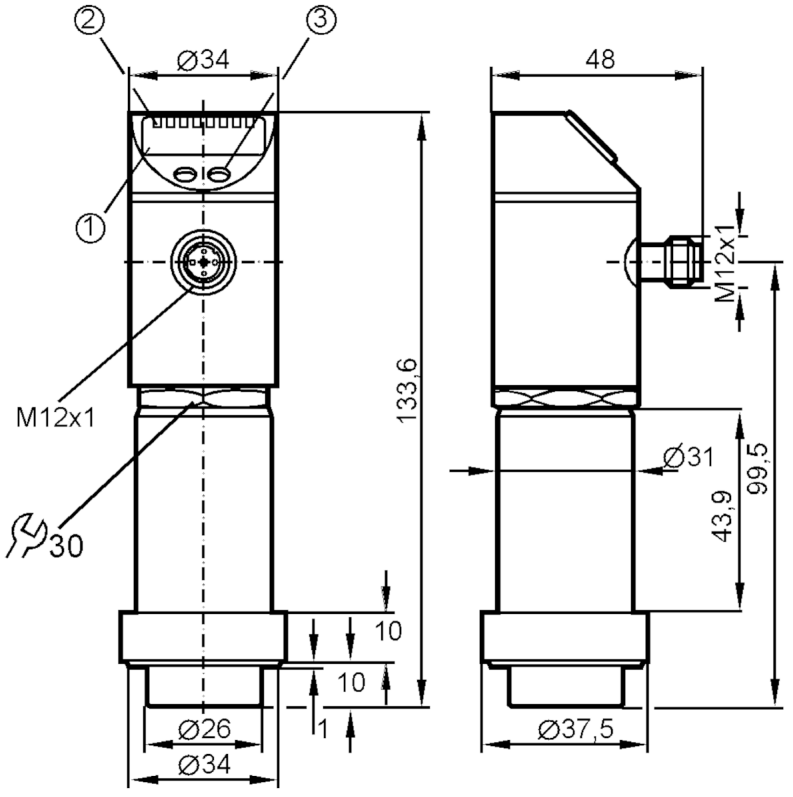
Pressure sensor with display

PY-600-SE MFRKG/US/ /V

Article no longer available - archive entry

Alternative articles: PY9060

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



1 alphanumeric display 4-digit
2 LEDs Display unit / switching status
3 programming button

CE EC 1935/2004 FCM JP FDA UK CA

Product characteristics			
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1	
Measuring range	[bar]	0...600	
Process connection		homogeniser connection	
Application			
Special feature		Gold-plated contacts	
Application		flush mountable for the food and beverage industry	
Media		liquids and gases	
Conditionally suitable for		Bei_gasfoermigen_Medien_ist_der_Einsatzbereich_auf_max_25_bar_begrenzt	
Medium temperature	[°C]	-25...100; (145 max 1h)	
Min. burst pressure		1200 bar	120 MPa
Pressure rating		800 bar	80 MPa
Type of pressure		relative pressure	
Electrical data			
Operating voltage	[V]	20...30 DC	
Current consumption	[mA]	< 65	

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Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.3
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analogue signal; (configurable)
Electrical design		PNP/NPN
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	< 170
Number of analogue outputs		1
Analogue current output	[mA]	4...20; (scalable 1:4)
Max. load	[Ω]	(Ub - 10 V) / 20 mA
Analogue voltage output	[V]	0...10; (scalable 1:4)
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...600
Set point SP	[bar]	6...600
Reset point rP	[bar]	3...597
Analogue start point	[bar]	0...240
Analogue end point	[bar]	150...600
In steps of	[bar]	3
Accuracy / deviations		
Switch point accuracy	[% of the span]	< ± 1,0; (Turn down 1:1)
Repeatability	[% of the span]	< ± 0,25; (with temperature fluctuations < 10 K; Turn down 1:1)
Characteristics deviation	[% of the span]	< ± 1,0; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1)
Linearity deviation	[% of the span]	< ± 0,5; (Turn down 1:1)
Hysteresis deviation	[% of the span]	< ± 1,0; (Turn down 1:1)
Long-term stability		< ± 0,25; (Turn down 1:1; per year)

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[% of the span]			
Temperature coefficient zero point [% of the span / 10 K]		< ± 0,2; (0...80 °C)	
Temperature coefficient span [% of the span / 10 K]		< ± 0,2; (0...80 °C)	
Response times			
Response time	[ms]	< 3	
Damping process value dAP	[s]	0...4	
Damping for the analogue output dAA in steps	[s]	0 - 0; 1 - 0; 5 - 2	
Max. response time analogue output	[ms]	3	
Software / programming			
Parameter setting options		hysteresis / window; normally open / normally closed; switching logic; current/voltage output; Damping; adaptation of displayed values; display can be rotated and switched off; Display unit; zero point; span	
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	
		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 (10...2000 Hz)
MTTF	[years]	145	
Mechanical data			
Weight	[g]	384	
Materials		stainless steel (304/1.4301); stainless steel (316L/1.4404); PC; PBT; PA; FKM; EPDM/X	
Materials (wetted parts)		stainless steel (316L/1.4404); ceramics (99.9 % Al2O3); FKM	
Min. pressure cycles		50 million	
Process connection		homogeniser connection	
Displays / operating elements			
Display		Display unit	3 x LED, green
		switching status	2 x LED, yellow
		function display	alphanumeric display, 4-digit
		measured values	alphanumeric display, 4-digit
Display unit		bar; psi; MPa	
Remarks			
Pack quantity		1 pcs.	

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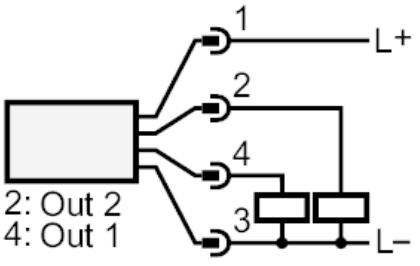
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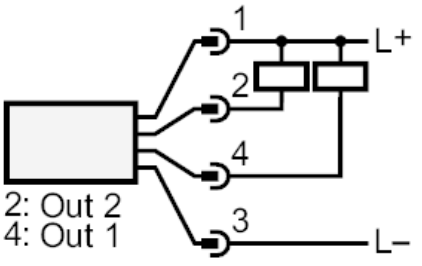
Electrical connection

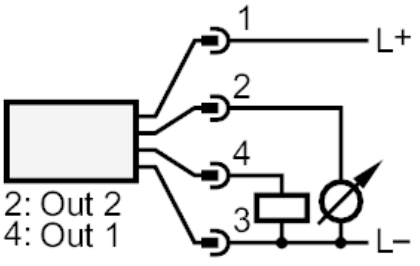
Connector: 1 x M12; coding: A; Contacts: 4, gold-plated

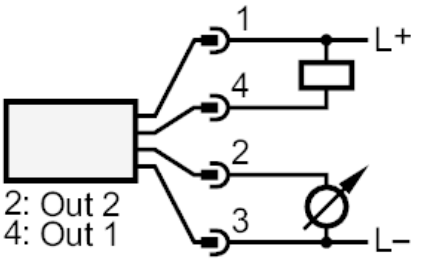


Connection









OUT1	switching output
OUT2	switching output analogue output