

PY9000



Pressure sensor with display

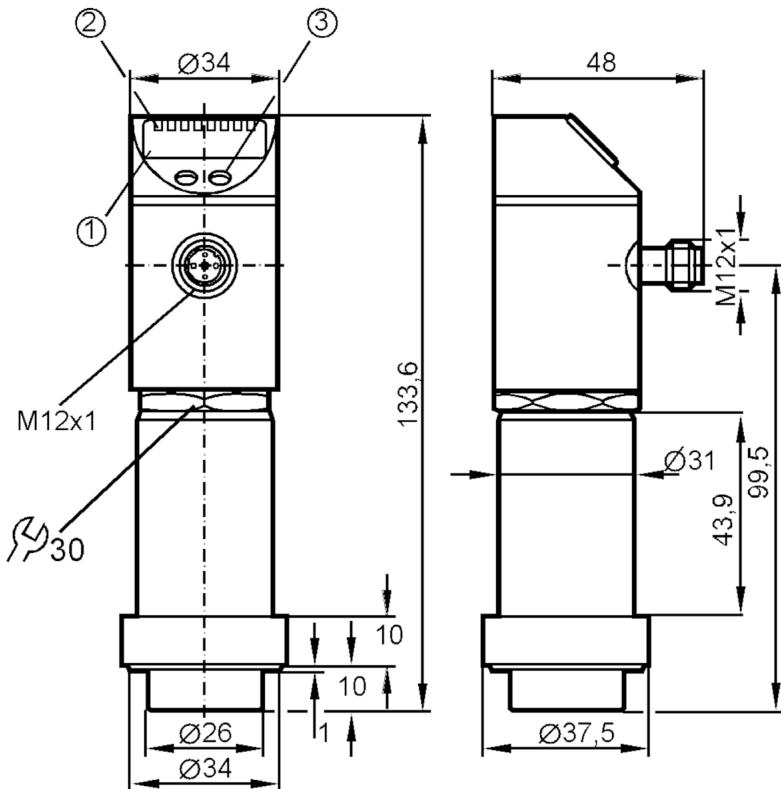
PY-600-SE MFRKG/US/ IV

Article to be discontinued

Discontinuation date: 03/31/2024

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 FDA UK CA

Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analog outputs: 1
Measuring range [bar]	0...600
Process connection	homogenizer connection

Application

System	gold-plated contacts
Application	flush mountable for the food and beverage industry
Media	liquids and gases
Conditionally suitable for	For gaseous media the application is limited to max. 25 bar.
Medium temperature [°C]	-25...100; (145 max 1h)
Min. bursting pressure [bar]	1200
Pressure rating [bar]	800
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	20...30 DC
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Current consumption	[mA]	< 65
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 analog outputs: 1
Outputs		
Total number of outputs		2
Output signal		switching signal; analog signal; (configurable)
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
Number of analog outputs		1
Analog current output	[mA]	4...20; (scalable 1:4)
Max. load	[Ω]	(Ub - 10 V) / 20 mA
Analog voltage output	[V]	0...10; (scalable 1:4)
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	0...600
Set point SP	[bar]	6...600
Reset point rP	[bar]	3...597
Analog start point	[bar]	0...240
Analog 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)

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Long-term stability [% of the span]		
		< ± 0,25; (Turn down 1:1; per year)
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)
Reaction times		
Response time	[ms]	< 3
Damping process value dAP	[s]	0...4
Damping for the analog output dAA in steps	[s]	0 - 0; 1 - 0; 5 - 2
Max. response time analog output	[ms]	3
Software / programming		
Parameter setting options	hysteresis / window; normally open / 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 EN 61000-4-3 HF radiated EN 61000-4-4 Burst EN 61000-4-5 Surge EN 61000-4-6 HF conducted	4 kV CD / 8 kV AD 2 kV 0,5/1 kV 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
Material	stainless steel (1.4301 / 304); stainless steel (1.4404 / 316L); PC; PBT; PA; FKM; EPDM/X	
Materials (wetted parts)	stainless steel (1.4404 / 316L); ceramics (99.9 % Al2O3); FKM	
Min. pressure cycles	50 million	
Process connection	homogenizer connection	
Displays / operating elements		
Display	Display unit Switching status Function display Measured values	3 x LED, green 2 x LED, yellow alphanumeric display, 4-digit alphanumeric display, 4-digit
Display unit	bar; psi; MPa	
Remarks		
Pack quantity	1 pcs.	

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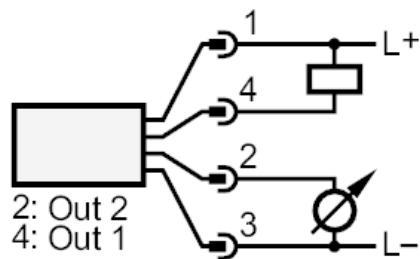
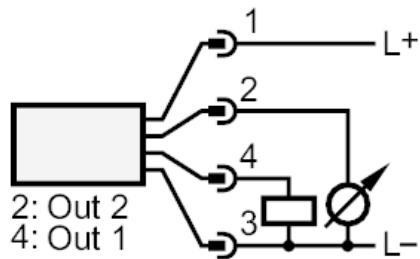
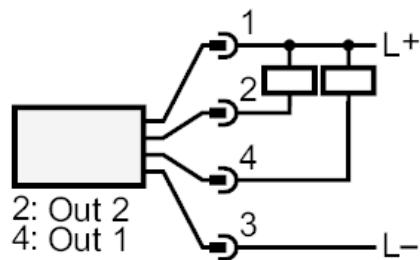
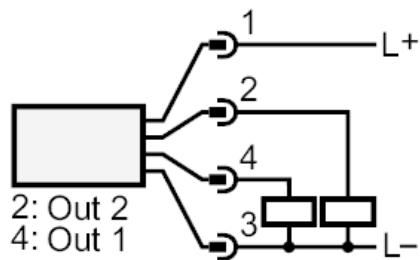
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Electrical connection

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



Connection



OUT1

Switching output

OUT2

Switching output

analog output