

PY9000

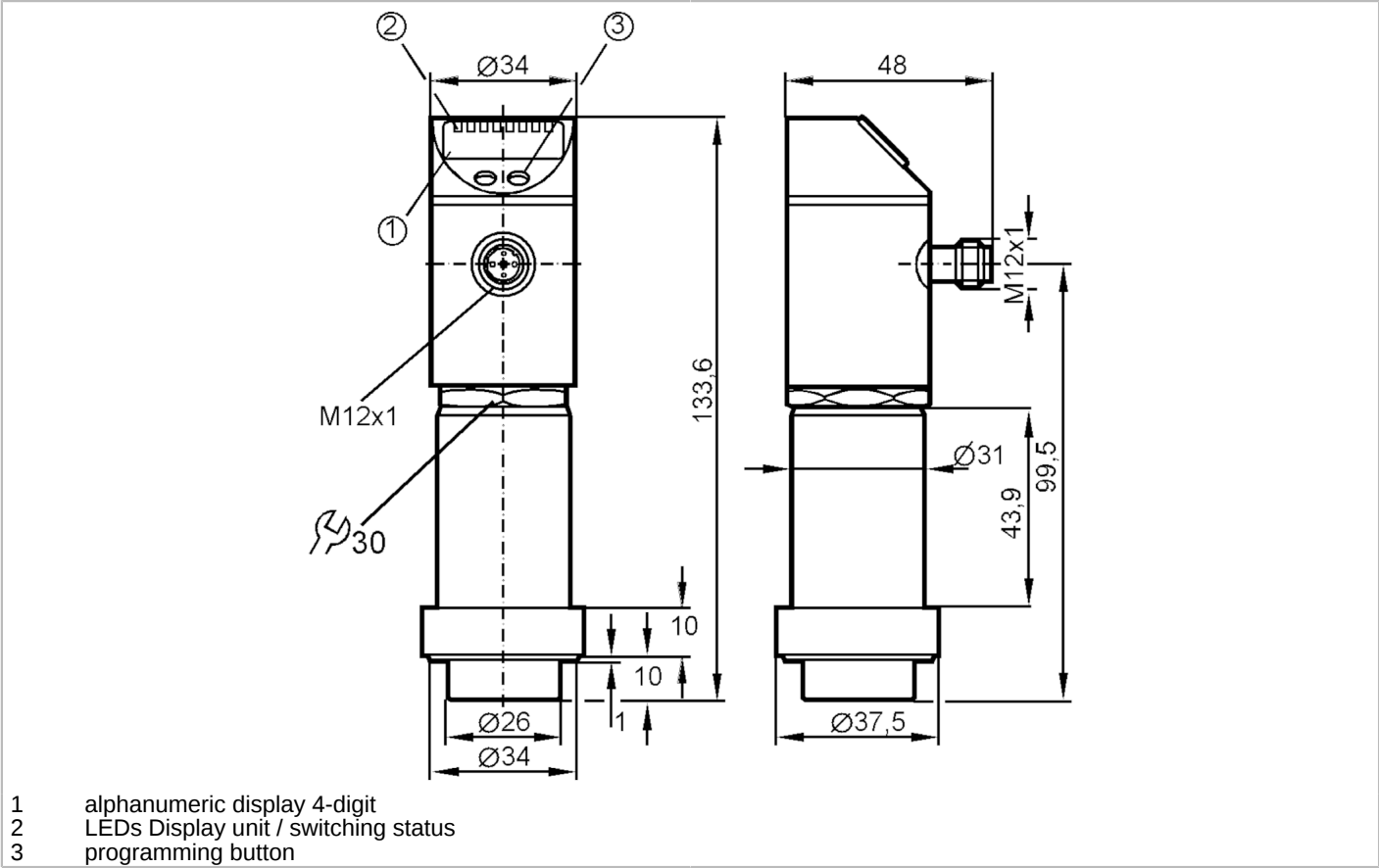


Pressure sensor with display

PY-600-SE MFRKG/US/ IV

phase-out article
Discontinuation date: 03/31/2024

Alternative articles: PY9060
When selecting an alternative article and accessories please note that technical data may differ!



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	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



Pressure sensor with display

PY-600-SE MFRKG/US/ IV

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 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]	(U _b - 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	[X21]	< ± 1,0; (Turn down 1:1)
Repeatability	[X21]	< ± 0,25; (with temperature fluctuations < 10 K; Turn down 1:1)
Characteristics deviation	[X21]	< ± 1,0; (Turn down 1:1, linearity, incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)
Linearity deviation	[X21]	< ± 0,5; (Turn down 1:1)
Hysteresis deviation	[X21]	< ± 1,0; (Turn down 1:1)
Long-term stability	[X21]	< ± 0,25; (Turn down 1:1; per year)
Temperature coefficient zero point	[X22]	< ± 0,2; (0...80 °C)

PY9000



Pressure sensor with display

PY-600-SE MFRKG/US/ IV

Temperature coefficient span	[X22]	< ± 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	[ANN]	145	
Mechanical data			
Weight	[g]	384	
Materials		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		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.	



Pressure sensor with display

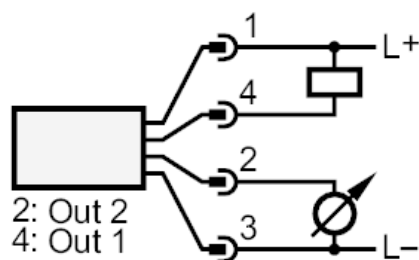
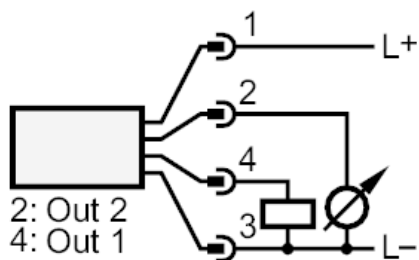
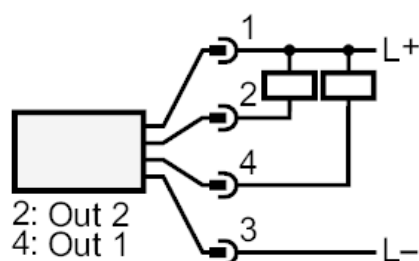
PY-600-SE MFRKG/US/ IV

Electrical connection

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



Connection



OUT1
OUT2

switching output
switching output
analogue output