

PY9000

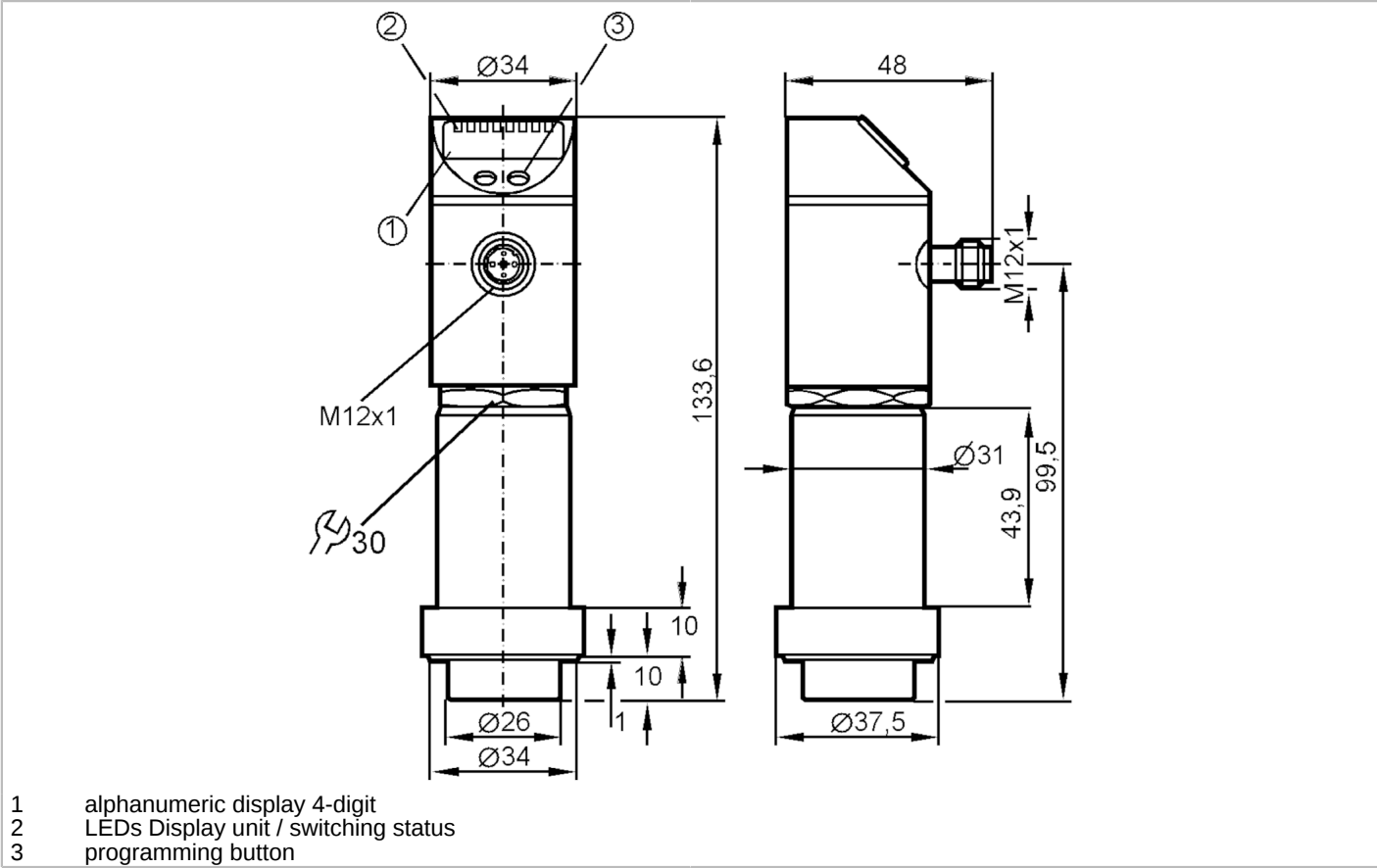


Pressure sensor with display

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
Min. bursting pressure [MPa]	120
Pressure rating [bar]	800
Pressure rating [MPa]	80
Type of pressure	relative pressure



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Electrical data		
Operating voltage	[V]	20...30 DC
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	[% 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)

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Hysteresis deviation [% of the span]	< ± 1,0; (Turn down 1:1)
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)

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 % Al ₂ O ₃); 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

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Remarks

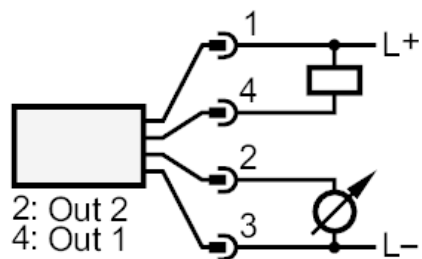
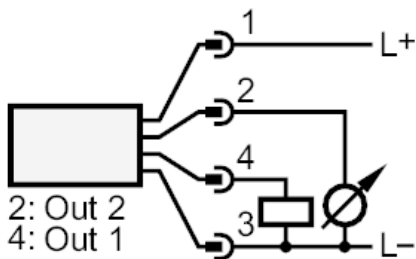
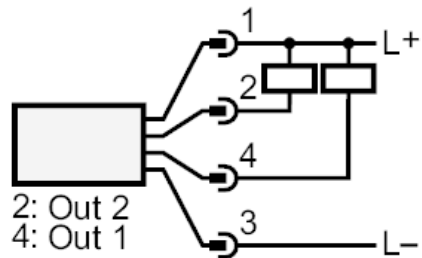
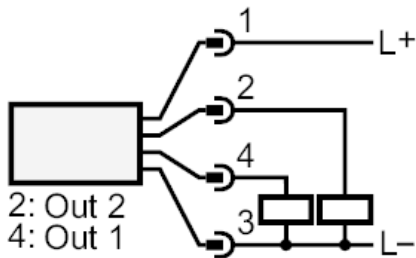
Pack quantity 1 pcs.

Electrical connection

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



Connection



OUT1 switching output
OUT2 switching output
analogue output