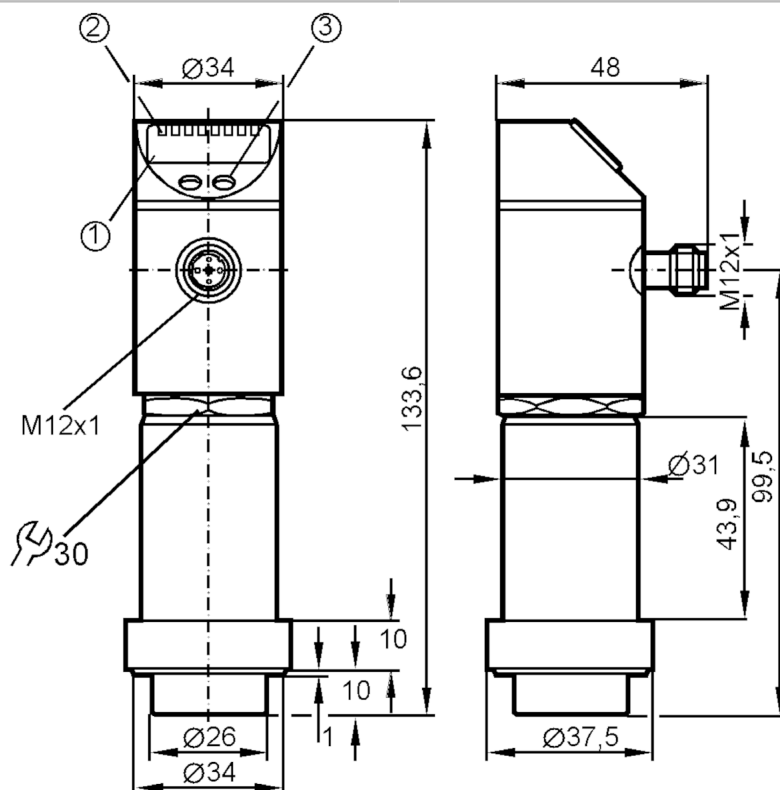


PY9000



Pressure sensor with display

PY-600-SE MFRKG/US/ IV



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



Application		
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)
Pressure rating	[bar]	800
Min. bursting pressure	[bar]	1200
Type of pressure		relative pressure
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



Pressure sensor with display

PY-600-SE MFRKG/US/ IV

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 16086)
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 [% 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)

PY9000



Pressure sensor with display

PY-600-SE MFRKG/US/ IV

Response times		
Response time	[ms]	< 3
Damping for the switching output 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	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 (10...2000 Hz)
MTTF	[years]	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	clamp adapter	
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.	
Electrical connection		
Connector: 1 x M12; Contacts: gold-plated		

PY9000

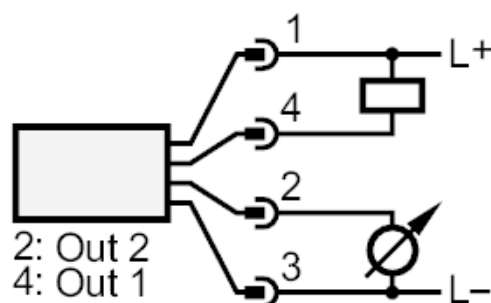
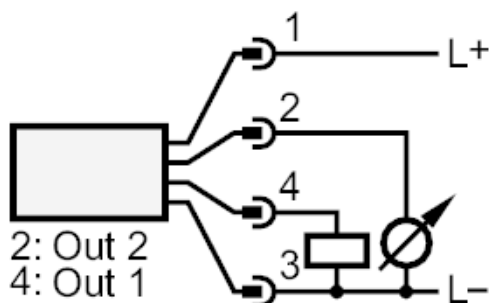
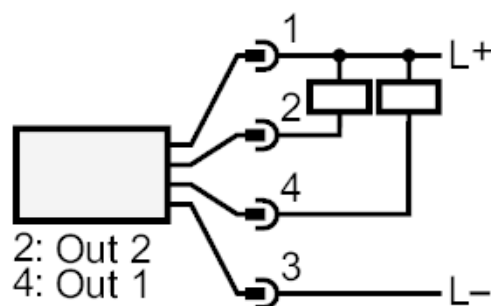
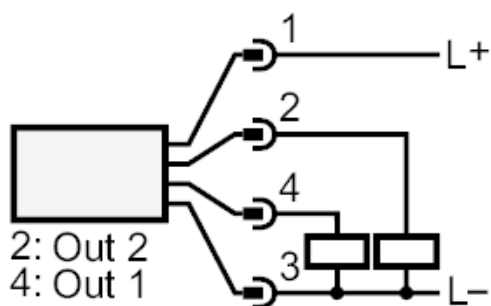


Pressure sensor with display

PY-600-SE MFRKG/US/ IV



Connection



OUT1	switching output
OUT2	switching output
	analogue output