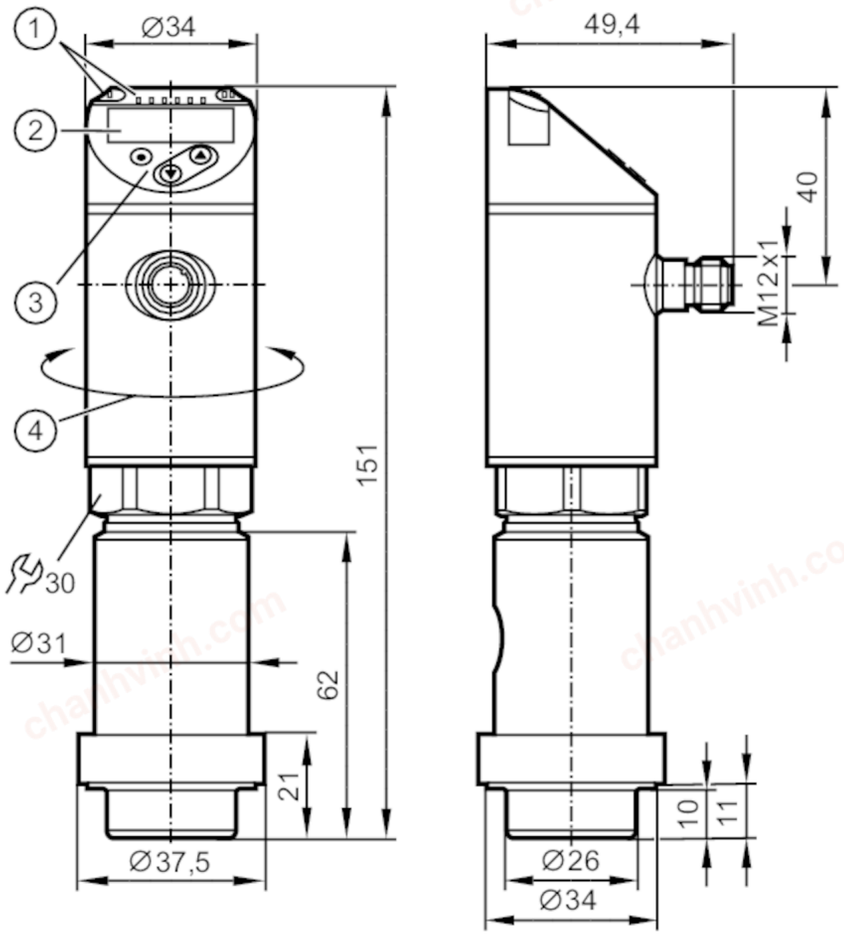
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PY9060

Pressure sensor with display

PN-600-SE MFRKG/US/ /



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

CE EC 1935/2004 FCM FDA UKCA

Product characteristics				
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1		
Measuring range		0...600 bar	0...8700 psi	0...60 MPa
Process connection		homogeniser connection		
Application				
Special feature		Gold-plated contacts		
Measuring element		diaphragm seal		
Application		flush mountable for the food and beverage industry		
Media		liquids and gases		
Medium temperature	[°C]	5...125; (150 maximum 1h)		
Min. bursting pressure		1200 bar	17400 psi	120 MPa
Pressure rating		800 bar	11580 psi	80 MPa
Vacuum resistance		-1000 mbar	-0.1 MPa	
Type of pressure		relative pressure		
Electrical data				
Operating voltage	[V]	18...30 DC; (to SELV/PELV)		

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Current consumption	[mA]	< 35
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; IO-Link; (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]	< 500
Number of analogue outputs		1
Analogue current output	[mA]	4...20; (scalable 1:5)
Max. load	[Ω]	500
Analogue voltage output	[V]	0...10; (scalable 1:5)
Min. load resistance	[Ω]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Measuring/setting range

Measuring range	0...600 bar	0...8700 psi	0...60 MPa
Set point SP	4...600 bar	60...8700 psi	0.4...60 MPa
Reset point rP	1...597 bar	20...8660 psi	0.1...59.7 MPa
Analogue start point	0...480 bar	0...6960 psi	0...48 MPa
Analogue end point	120...600 bar	1740...8700 psi	12...60 MPa
In steps of	1 bar	20 psi	0.1 MPa

Accuracy / deviations

Switch point accuracy	[% of the span]	< ± 0,4; (Turn down 1:1)
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)
Characteristics deviation	[% of the span]	< ± 1; (linearity, incl. hysteresis and repeatability; limit value setting to DIN EN IEC 62828-1)
Hysteresis deviation	[% of the span]	< ± 0,1; (Turn down 1:1)
Long-term stability	[% of the span]	< ± 0,05; (Turn down 1:1; per 6 months)

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Temperature coefficient zero point [% of the span / 10 K]	0,2; (5...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,2; (5...80 °C)	
Response times		
Response time [ms]	< 1.5	
Delay time programmable dS, dr [s]	0...50	
Damping process value dAP [s]	0...4	
Damping for the analogue output dAA [s]	0...4	
Max. response time analogue output [ms]	3	
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; switch-on/ switch-off delay; Damping; Display unit; current/voltage output	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis	
SIO mode	yes	
Required master port type	A	
Process data analogue	1	
Process data binary	2	
Min. process cycle time [ms]	2.3	
Supported DeviceIDs	**Type of operation**	**DeviceID**
	default	458
Operating conditions		
Ambient temperature [°C]	5...80	
Storage temperature [°C]	-40...100	
Protection	IP 67	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF [years]	143	
Mechanical data		
Weight [g]	675	
Housing	cylindrical	
Dimensions [mm]	Ø 34 / L = 151	
Materials	stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); stainless steel (316L/1.4435); PBT+PC-GF30; PBT-GF20; PC	

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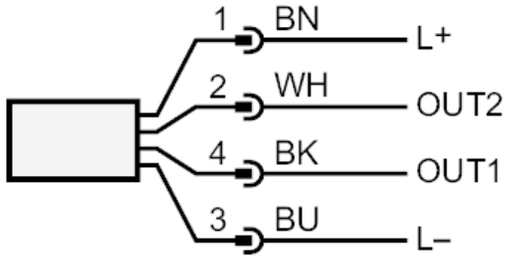
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Materials (wetted parts)	stainless steel (316L/1.4435)	
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)	
Process connection	homogeniser connection	
Displays / operating elements		
Display	Display unit	3 x LED, green (bar, psi, MPa)
	switching status	2 x LED, yellow
	measured values	alphanumeric display, red/green 4-digit
Remarks		
Pack quantity	1 pcs.	

Electrical connection

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





OUT1	switching output or IO-Link
OUT2	switching output or analogue output
	colours to DIN EN 60947-5-2
	Core colours :
BK =	black
BN =	brown
BU =	blue
WH =	white