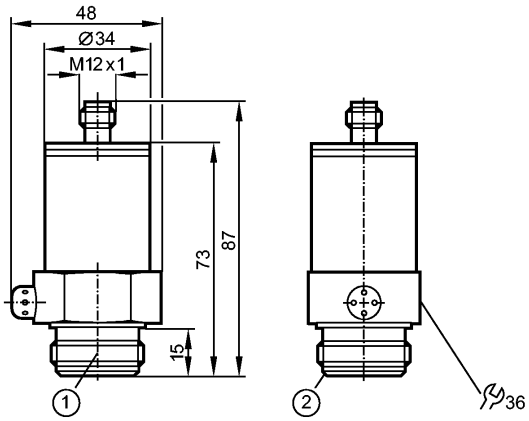
PL2056

PL-2.5-RES30-E-ZVG/US/ /P

Pressure sensors



1: Aseptoflex thread
2: Aseptoflex sealing edge

EC 1935/2004 EHEDG Certified

Product characteristics				
Electronic pressure sensor				
Quick disconnect				
no dead space				
Zero and span adjustable				
Programmable via EPS interface				
Process connection: for Aseptoflex adapter				
Analog output				
Measuring range: -0.13...2.50 bar / -1.8...36.3 psi / -13...250 kPa				
Application				
Application		Type of pressure: relative pressure Hygienic systems, viscous media and liquids with suspended particles Liquids and gases		
Pressure rating		20 bar	290 psi	2000 kPa
Bursting pressure min.		50 bar	725 psi	5000 kPa
Medium temperature	[°C]	-25...80		
Electrical data				
Electrical design		3-wire DC; 2-wire DC		
Operating voltage	[V]	14...30 DC		
Insulation resistance	[MΩ]	> 100 (500 V DC)		
Protection class		III		
Reverse polarity protection		yes		
Outputs				
Output		Analog output		
Output function		4...20 mA analog		
Overload protection		yes		
Analog output		4...20 mA		
Max. load	[Ω]	max. (Ub - 13 V) / 20 mA; 550 at Ub = 24 V		
Measuring / setting range				
Measuring range		-0.13...2.50 bar	-1.8...36.3 psi	-13...250 kPa
Setting range				
Analog start point, ASP		-0.13...1.88 bar	-1.8...27.2 psi	-13...188 kPa

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PL-2.5-RES30-E-ZVG/US/ /P

Pressure sensors

Analog end point, AEP	0.50...2.50 bar	7.3 ...36.3 psi	50...250 kPa
in steps of	0.01 bar	0.1 psi	1 kPa
Factory setting	ASP = 0.0 bar; AEP = 2.50 bar		

Accuracy / deviations

Accuracy / deviations (in % of the span) Turn down 1:1	
Characteristics deviation *)	< ± 0.6
Linearity	< ± 0.5
Hysteresis	< ± 0.1
Repeatability **)	< ± 0.1
Long-term stability ***)	< ± 0.1
Temperature coefficients (TEMPCO) in the temperature range 0...80° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point	< ± 0.1
Greatest TEMPCO of the span	< ± 0.2

Reaction times

Response time analog output	[ms]	3

Environment

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 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 10 V
Shock resistance	DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6:	20 g (10...2000 Hz)
MTTF	[Years]	271

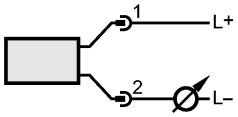
Mechanical data

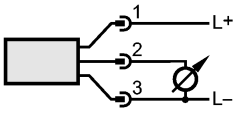
Process connection	for Aseptoflex adapter
Materials (wetted parts)	ceramics (99.9 % Al2 O3); PTFE; stainless steel 316L / 1.4435; surface characteristics: Ra < 0.4 / Rz 4
Housing materials	stainless steel 316L / 1.4404; PEI; FPM (Viton)
Min. pressure cycles	100 million
Weight [kg]	0.315

Electrical connection

Connection	M12 connector; gold-plated contacts

Wiring





Remarks

Remarks	*) linearity, incl. hysteresis and repeatability;

		(limit value setting to DIN 16086) **) with temperature fluctuations < 10 K ***) in % of the span per year The 3-A qualification is only valid if adapters with 3-A qualification are used for installation.
Pack quantity	[piece]	1