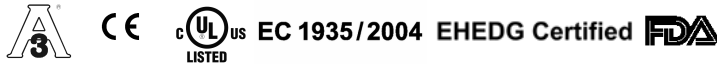


- 1: 7-segment LED display
- 2: Programming button
- 3: Aseptoflex sealing edge
- 4: Aseptoflex thread



Product characteristics

Combined pressure sensor

Quick disconnect

no dead space

Freely rotatable housing 350°

Zero and span adjustable

Function programmable

Process connection: for Aseptoflex adapter

2 outputs

OUT1 = switching output

OUT2 = switching output or analog output

7-segment LED display

Measuring range: -1.0...25 bar / -15...363 psi / -0.1...2.5 MPa

Application

Application

Type of pressure: relative pressure
Hygienic systems, viscous media and liquids with suspended particles
Liquids and gases

Pressure rating

100 bar

1450 psi

10 MPa

Bursting pressure min.

350 bar

5070 psi

35 MPa

Medium temperature

[°C]

-25...80

Electrical data

Electrical design

DC PNP/NPN

Operating voltage

[V]

20...30 DC

Current consumption

[mA]

< 60

Insulation resistance

[MΩ]

> 100 (500 V DC)

Protection class

III

Reverse polarity protection

yes

Outputs

Output

2 outputs
OUT1 = switching output
OUT2 = switching output or analog output

Output function

2 x normally open / closed programmable or 1 x normally open / closed programmable
+ 1 x analog (4...20 mA / 0...10 V; programmable 1:4)

Current rating

[mA]

2 x 250

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Voltage drop	[V]	< 2		
Short-circuit protection		yes (non-latching)		
Overload protection		yes		
Switching frequency	[Hz]	≤ 170		
Analog output		4...20 mA / 0...10 V		
Max. load	[Ω]	4...20 mA: max. (U _b - 10 V) x 50 / 0...10 V: min. 2000		
Measuring / setting range				
Display unit		bar, psi, MPa		
Measuring range		-1.0...25 bar	-15...363 psi	-0.1...2.5 MPa
Setting range				
Set point, SP		-0.8...25.0 bar	-12...363 psi	-0.08...2.50 MPa
Reset point, rP		-0.9...24.9 bar	-13...362 psi	-0.09...2.49 MPa
Analog start point, ASP		-1.0...18.8 bar	-15...272 psi	-0.10...1.88 MPa
Analog end point, AEP		5.3...25.0 bar	76...363 psi	0.53...2.50 MPa
in steps of		0.1 bar	1 psi	0.01 MPa
Factory setting		SP1 = 6.3 bar; rP1 = 5.8 bar ASP = 0.0 bar; AEP = 25.0 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				
Power-on delay time	[s]	0.2		
Min. response time switching output	[ms]	3		
Damping for the switching output (dAP)	[s]	0...4		
Damping for the analog output (dAA)	[s]	0 - 0.1 - 0.5 - 2		
Response time analog output	[ms]	3		
Integrated watchdog		yes		
Software / programming				
Programming options		hysteresis / window function; N.O. / N.C.; output polarity; current / voltage outputs; damping; calibration of displayed values; display can be rotated / deactivated; display unit		
Environment				
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 61000-4-6 HF conducted:	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]	181		
Mechanical data				
Process connection		for Aseptoflex adapter		
Materials (wetted parts)		ceramics (99.9 % Al ₂ O ₃); PTFE; stainless steel 316L / 1.4435; surface characteristics: Ra < 0.4 / Rz 4		

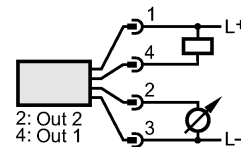
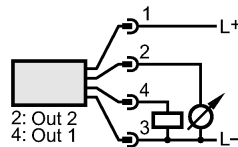
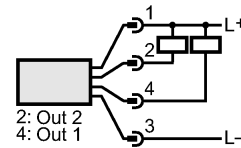
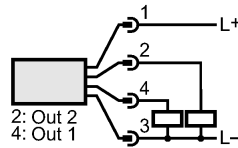
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Housing materials	stainless steel 316L / 1.4404; PBT (Pocan); PC (Makrolon); PEI; EPDM/X (Santoprene); FPM (Viton)
Switching cycles min.	100 million
Weight [kg]	0.315
Displays / operating elements	
Display	Switching status 2 x LED red Function display 7-segment LED display Measured values 7-segment LED display
Electrical connection	
Connection	M12 connector; gold-plated contacts

Wiring

Programming of the output function (OUT1 / OUT2):

- Hno = hysteresis / normally open
- Hnc = hysteresis / normally closed
- Fno = window function / normally open
- Fnc = window function / normally closed
- Complementary outputs:
output 1: = Hno, output 2: = Hnc
(with the same SP / rP)



Programming of the analog output (OUT2):

- I = current output (4...20 mA)
- U = voltage output (0...10 V)



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
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