CONTACT PRESSURE GAUGES WITH BOURDON TUBE STAINLESS STEEL, ACC. TO EN 837-1



Nominal size NS 160 Connection stainless steel Connection position bottom or back without / with silicone oil filling

Contact pressure gauges with electrical alarm contacts are suitable for controlling and regulating process sequences. The contacts open or close electrical circuits depending on the pointer position of the pressure gauge. This devices are suitable for media that do not attack copper alloys, are not highly viscous and do not tend to crystallize.

updated: July 2021



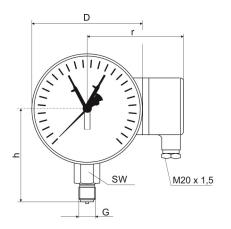
Туре	3912	4112	4012	4212	Options	
Nominal size						
Liquid filling						
Symbol						
Accuracy class	1,0 according to D					
Ranges	01 bar up to 0	MPa, kPa others on request				
Applications	Constant load: Alternating load: Short-time:					
Case	Stainless steel					
Ring	Bayonet, stainless					
Measuring element	Stainless steel					
Connection	Stainless steel					
Thread	G 1/2 B	M20x1,5 others on request				
Connection position	radial bottom	radial bottom eccentric back radial bottom eccentric back		eccentric back		
Orifice		Ø0,3, 0,4, 0,8 mm				
Window	Polycarbonate	Safety glass				
Movement	Stainless steel					
Dial	Aluminium white,	Special scale				
Pointer	Aluminium black	Drag indicator, Mark pointer				
Temperatures	Medium: -20°C up to +80°C, ambient: -25°C up to +60°C					
Protection	IP54 acc. to EN 60					
Mounting		back flange or front flange				
Weight	approx. 1,80 kg					

Dimensional drawings

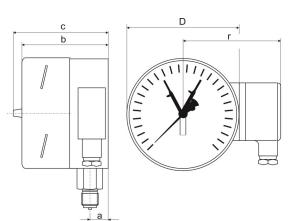
Dimensions in mm

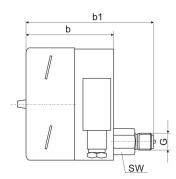


Type 3912, 4012



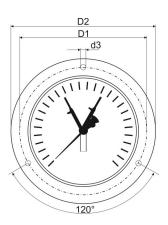
Type 4112, 4212



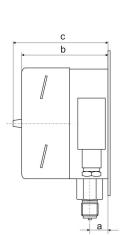


Hole pattern

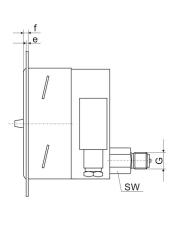
updated: July 2021



rear flange



front flange



Туре	NS	G	D	D1	D2	b	b1	С	h	r	е	f	d3	sw
3912	160	G1/2B	160	178	196	97		107	118	118	3	8	5,6	22
4112	160	G1/2B	160	178	196		132	107		118	3	8	5,6	22
4012	160	G1/2B	160	178	196	97		107	118	118	3	8	5,6	22
4212	160	G1/2B	160	178	196		132	107		118	3	8	5,6	22

Installation of several limit switches (e.g. M11) only possible from a measuring range of 1.6 bar.

Magnatic snap-action contact



Application

Magnetic snap contacts can be used in different operating conditions.

Contact protection relays are recommended for high or low switching capacities. Contact protection relays must also be used with filled devices, as switching uncertainties occur due to filling and burn-off (better: use electronic contacts).

Attention: Only inductive contacts with ATEX approval may be used in potentially explosive areas.

With nominal operating voltages> 50 VAC or> 120 VDC, the contacts must be reliably earthed according to DIN VDE 0110.

Technical data

Switching voltage: max. 250 V

Min. switching voltage: 24 V (with ohmic load and operation in air)

Switching current: max. 1,0 A
Continuous current: max. 0,6 A
Minimum current: 20 mA

Switching power: max. 30 W; 50 VA
Minimum switching power: 0,4 W; 0,4 VA
Contact material: Ag80 Ni20

Switching accuracy: ca. 2-5% full of scale value

Switching function

updated: July 2021

Туре	clockwise under increasing pressure	Cable socket connection diagram
M-1	Contact closes	
M-2	Contact opens	
M-3	1-fold changeover contact (1 set point)	2 4 1 😓
M-11	Contact 1 closes Contact 2 closes	4 1 2 =
M-12	Contact 1 closes Contact 2 opens	4 1 2 1
M-21	Contact 1 opens Contact 2 closes	4 1 2 🖶
M-22	Contact 1 opens Contact 2 opens	4 1 2 1
M-33	2-fold changeover contact (2 set points)	\$\frac{1}{2} \qua

Modifications reserved!

Inductive contact





Inductive contact in pointer-type measuring instruments are equipped with electrical distance sensors (proximity sensors) in accordance with DIN 19234 resp.

When using the Ex isolating switch amplifier, the equipment corresponds to type of ignition property "i". It is approved under the classification EEx ib II C T6 for use in potentially explosive areas (zone 1 and 2).

Multi-function relays are recommended for installation in normal industrial plants for which explosion protection is not required.

Technical data

Nominal voltage: 8V = (Ri = 1 k OHM)

Operating voltage: 5...25 V

Current consumption: approx. 1...3 mA

Switching accuracy: approx 0,5% of full scale value

Ambient temperature: -20°C...+70°

Туре	clockwise under increasing pressure	Cable socket connection diagram
I-1	Contact closes	1 2 =
I-2	Contact opens	1 1 2 1
I-11	Contact 1 closes Contact 2 closes	1 2 3 4 1
I-12	Contact 1 closes Contact 2 opens	
I-21	Contact 1 opens Contact 2 closes	
I-22	Contact 1 opens Contact 2 opens	1 1 2 3 4 =

Modification reserved!