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



Nominal size NS 100 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.

Particularly suitable for chemically aggressive gases or liquids, which however should not be highly viscous or tend to crystallize.



Туре	3512	3712	3612	3812	Options
Nominal size					
Liquid filling			with silicone oil		Contact protection relay for filled devices and high / low swit- ching capacities
Symbol					
Accuracy class	1,0 according to D				
Ranges	01 bar up to 01	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 (SV				
Thread	G 1/2 B	M20x1,5 others on request			
Connection position	radial bottom	eccentric back	radial bottom eccentric back		
Orifice		Ø0,3, 0,4, 0,8 mm			
Window	Polycarbonate	Safety glass			
Movement	Stainless steel				
Dial	Aluminium white, s	Special scale			
Pointer	Aluminium black	Drag indicator, Mark pointer			
Temperatures	Medium: -20°C up				
Protection	IP54 acc. to EN 60				
Mounting		back flange or front flange			
Weight	approx. 1,30 kg approx. 3,30 kg				

Type 3512, 3612, 3712, 3812

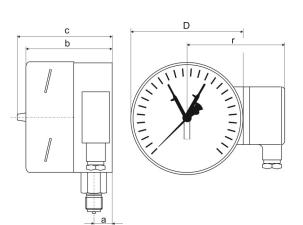
Dimensional drawings

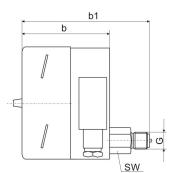
Dimensions in mm



Type 3512 and 3712

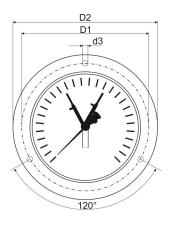
Type 3612 und 3812



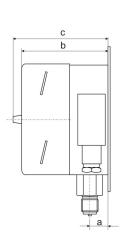


Hole pattern

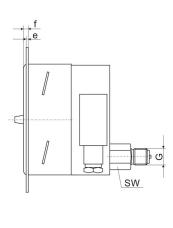
updated: July 2021



rear flange



front flange



Туре	NS	G	D	D1	D2	b	b1	С	h	r	е	f	d3	sw
3512	100	G1/2B	101	116	132	78		88	86	88	2	6	5	22
3612	100	G1/2B	101	116	132		113	88		88	2	6	5	22
3712	100	G1/2B	101	116	132	78		88	86	88	2	6	5	22
3812	100	G1/2B	101	116	132		113	88		88	2	6	5	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

Туре	clockwise under increasing pressure	Cable socket connection diagram
M-1	Contact closes	4 1 🖶
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	
M-22	Contact 1 opens Contact 2 opens	4 1 2 1
M-33	2-fold changeover contact (2 set points)	5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

Modifications reserved!

Type 3512, 3612, 3712, 3812

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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	
I-2	Contact opens	
I-11	Contact 1 closes Contact 2 closes	
I-12	Contact 1 closes Contact 2 opens	
I-21	Contact 1 opens Contact 2 closes	
I-22	Contact 1 opens Contact 2 opens	

Modification reserved!