

PRESSOSTAT



Applications



- Shipbuilding
- Engine manufacturing
- Railways
- Machine tools
- Hydraulics

Features

- Rugged aluminium housing
- Protection IP65
- Any mounting position possible

Technical Data			
Measuring principle	Bellow	Repeatability	± 1.0 % FS typ.
Measuring range	-0.9 ... 1.5 to 10 ... 100 bar 5 ... 50 to 125 ... 1500 psi	Media temperature	-40°C ... +150°C
Output signal	1 Floating change-over contact (SPDT)	Ambient temperature	-25°C ... +70°C
Switching differential	Not adjustable	Approval / conformity	ABS, BV, CCS, DNV-GL, KRS, LRS, RINA EN60730-1/ EN60730-2-6: Typ 2.B.H

Ordering information/type code

		XXX	XX	XX	XXXXXX	XX	XX
Custom build code	With display and adjusting screw	900					
	Without display, with adjusting screw	904					
	With display and adjusting knob	912					
Microswitch	Small switching differential, standard vibration resistance ^{1) 2)}					10	
	Average switching differential, standard vibration resistance ¹⁾					11	
	Average switching differential, increased vibration resistance  ¹⁾					23	
	Large switching differential, high vibration resistance  ¹⁾					26	
	With gold plated contacts, standard vibration resistance ¹⁾					21	

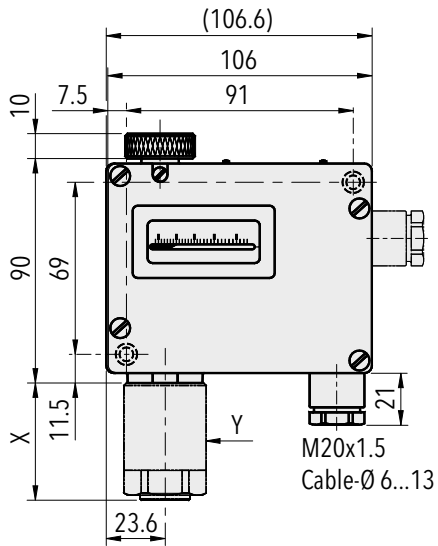
Range	Range [bar]	Over pressure [bar]	Burst pressure [bar]		Range [psi]	Over pressure [psi]	Burst pressure [psi]	
		-0.9 ... 1.5	10	13	72	5 ... 50	175	350
	0.2 ... 1.6	10	13	73	10 ... 100	350	500	G8
	0.2 ... 2.5	10	13	75	25 ... 200	350	500	G9
	0 ... 4	12	26	76	50 ... 500	500	1000	H1
	0 ... 6	12	26	77	125 ... 1500	1500	2300	H3
	1 ... 10	24	36	78				
	1 ... 16	24	36	79				
	2 ... 25	40	75	80				
	4 ... 40	40	75	81				
	6 ... 60	100	160	82				
	10 ... 100	100	160	83				

Sensor	Sensor material	Sensor housing material	Thread	Range		Sensor material	Sensor housing material	Thread	Range	
		Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	72	900	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	78, 79
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	73, 75	901	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	80, 81	957
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	76, 77	903	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/2" male	72	959
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	78, 79	905	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/2" male	73, 75	952
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	80, 81	907	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/2" male	76, 77	954
	Stainless steel 1.4435	Brass (CuZn39Pb3)	G1/4" female	82, 83	940	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/2" male	78, 79	956
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	72	909	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/2" male	80, 81	958
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	73, 75	902	Stainless steel 1.4435	Brass nickel plated	G1/4" female	72	800
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	76, 77	904	Stainless steel 1.4435	Brass nickel plated	G1/4" female	73, 75	801
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	78, 79	906	Stainless steel 1.4435	Brass nickel plated	G1/4" female	76, 77	803
	Bronze bellow (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	80, 81	908	Stainless steel 1.4435	Brass nickel plated	G1/4" female	78, 79	805
	Stainless steel 1.4435	Brass	G1/2" male	82, 83	941	Stainless steel 1.4435	Brass nickel plated	G1/4" female	80, 81	807
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	1/4" NPT female	G6	G6.103	Stainless steel 1.4435	Brass nickel plated	G1/4" female	82, 83	840
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	1/4" NPT female	G8	G8.105	Stainless steel 1.4435	Brass nickel plated	G1/2" male	72	809
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	1/4" NPT female	G9	G9.105	Stainless steel 1.4435	Brass nickel plated	G1/2" male	73, 75	802
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	1/4" NPT female	H1	H1.107	Stainless steel 1.4435	Brass nickel plated	G1/2" male	76, 77	804
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	1/4" NPT female	H3	H3.140	Stainless steel 1.4435	Brass nickel plated	G1/2" male	78, 79	806
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	72	950	Stainless steel 1.4435	Brass nickel plated	G1/2" male	80, 81	808
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	73, 75	951	Stainless steel 1.4435	Brass nickel plated	G1/2" male	82, 83	841
	Bronze bellow (CuSn6)	Brass chemically nickel plated	G1/4" female	76, 77	953					

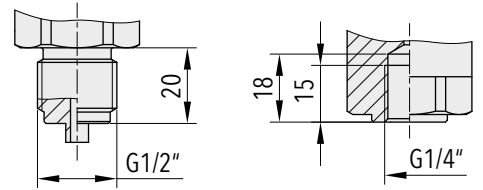
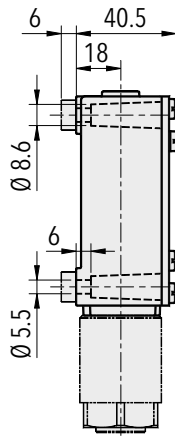
Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint ¹⁾	10 % ... 90 % FS
Environmental conditions	Ambient temperature	-25°C ... +70°C
	Media temperature	-40°C ... +150°C
	Storage temperature	-25°C ... +85°C
	Protection	IP65
	Humidity	Max. 95% relative
	Vibration	Switch 23/26: 5...25 Hz: ±1.6 mm 25...100 Hz: 4 g Ranges 72, 73, 75, 5...50 Hz: 20 mm/sec.
	Shock	50 g / 11 ms
Mechanical Data	Sensor	See ordering information
	Housing	AlSi10Mg/ Epoxy coated
	Sealing	NBR
	Housing seal	EPDM 75 Sh
	Screwed cable gland	Brass nickel plated
	Male electrical plug	Polyamide (PA)
	Mounting torque	max. 25 Nm
	Installation	any position
	Weight	~ 710 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ
	Dielectric strength	U ≤ 250V: 1.45 kV / U ≤ 500V: 2 kV terminal ground
	Life time (mechanical)	Microswitch 10/11: 20 Mio. cycles Microswitch 21: 0.5 Mio. cycles Microswitch 23/26: 0.3 Mio. cycles
	Electrical connection	Electrical connections
Cable gland		M20x1.5 Cable-Ø 6...13 mm
Terminal screw		3 x 1.5...4 mm ²

¹⁾ Other adjustment ranges upon request

Dimensions

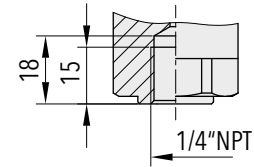


Dimension X and Y see data sheet H72271

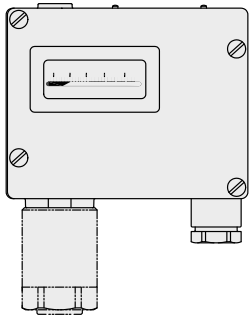


G1/2" male

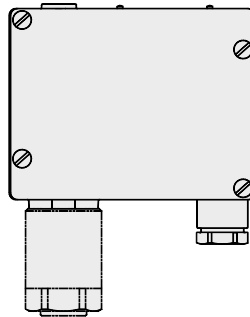
G1/4" female



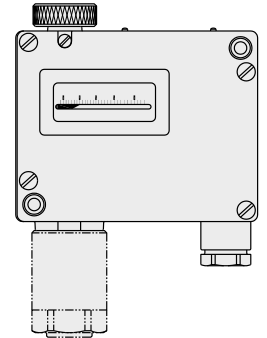
1/4" NPT female



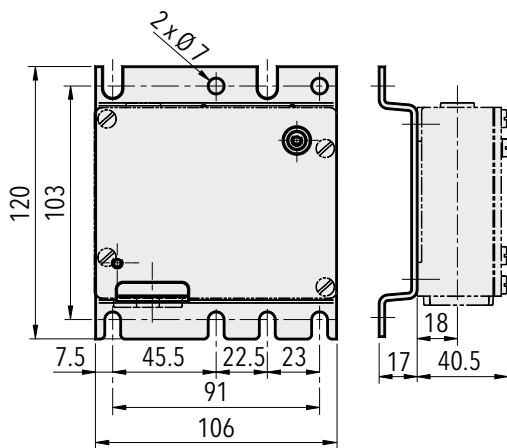
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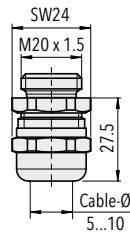
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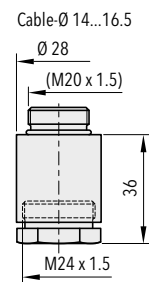
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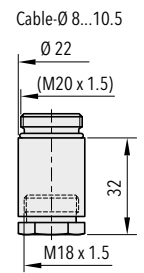
9XX.XX.XX.XXX.31.XX



9XX.XX.XX.XXX.XX.07
M20x1.5



9XX.XX.XX.XXX.XX.27
M24x1.5





9XX.XX.XX.XXX.XX.40
M18x1.5



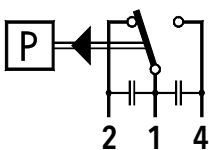
Switching differential typ. @ 25°C

Measuring range of bellows sensor	[bar]	-0.9 ... 1.5	0 ... 4	1 ... 10	2 ... 25	6 ... 60
		0.2 ... 1.6	0 ... 6	1 ... 16	4 ... 40	10 ... 100
Microswitch 10 Switching differential (not adjustable)	[bar]	0.03	0.08	0.2	0.5	1.5
Microswitch 11/21/23 Switching differential (not adjustable)	[bar]	0.1	0.2	0.4	1.0	3.0
Microswitch 26 Switching differential (not adjustable)	[bar]	0.1	0.3	0.8	2.0	5.0
Measuring range of bellows sensor	[psi]	5 ... 50	10 ... 100	50 ... 500	125 ... 1500	
			25 ... 200			
Microswitch 10 Switching differential (not adjustable)	[psi]	1.2	3	7.5	22	
Microswitch 11/21/23 Switching differential (not adjustable)	[psi]	3	6	14.5	44	
Microswitch 26 Switching differential (not adjustable)	[psi]	4.4	12	30	72.5	

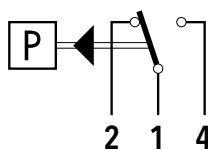
Electrical data switch

Type	Features	Rating	
		Resistive Load (Inductive Load)	
		AC	DC
10	Small switching differential (not recommended for applications under vibrations)	125 V 10 (1.5) A 250 V 10 (1.25) A	250 V 0.2 (0.02) A 125 V 0.4 (0.03) A 30 V 2 (1) A 14 V 15 (2.5) A
11	Average switching differential, standard vibration resistance	125 V 15 (1.5) A 250 V 15 (1.25) A 500 V 10 (0.75) A	250 V 0.25 (0.03) A 125 V 0.5 (0.05) A 30 V 6 (1.5) A 14 V 15 (1.5) A
23 	Average switching differential, increased vibration resistance	125 V 15 (1.5) A 250 V 15 (1.25) A 500 V 10 (0.75) A	250 V 0.3 (0.05) A 125 V 0.6 (0.1) A 30 V 15 (1.5) A 14 V 15 (1.5) A
26 	Large switching differential, high vibration resistance	125 V 15 (1.5) A 250 V 15 (1.25) A 500 V 10 (0.75) A	250 V 0.3 (0.2) A 125 V 0.75 (0.4) A 30 V 15 (1.5) A 14 V 15 (1.5) A
21	With gold plated contacts, standard vibration resistance	24 V 0.1 (0.1) A 12 V 1.0 (1.0) A 5 V 2.0 (2.0) A	24 V 0.1 (0.1) A 12 V 1.0 (1.0) A 5 V 2.0 (2.0) A

Electrical connection



Switch 10/11/23



Switch 21/26