

PRESSOSTAT

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature.



Applications

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

Features

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



08/2024




Data sheet H72252v

Technical Data			
Measuring principle	Bellow	Repeatability	± 1.0 % FS typ.
Measuring range	-0.9 ... 1.5 to 10 ... 100 bar	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: Type 2.B.H

Subject to change

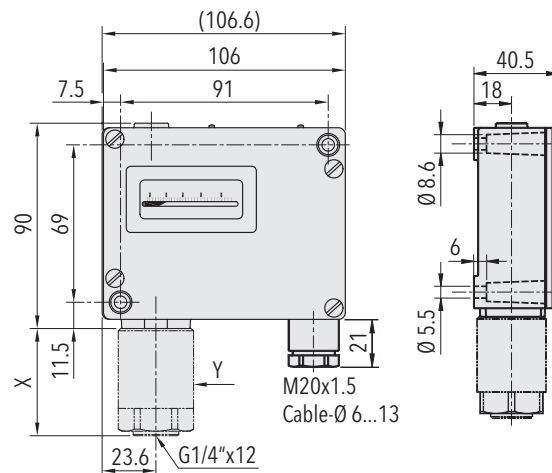
Ordering information/type code

		XXX	XX	XX	XXX	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	-13.1 ... 21.8	145	188	72			
	0.2 ... 1.6	10	13	2.9 ... 23.2	145	188	73			
	0.2 ... 2.5	10	13	2.9 ... 36.3	145	188	75			
	0 ... 4	12	26	0 ... 58	174	377	76			
	0 ... 6	12	26	0 ... 87	174	377	77			
	1 ... 10	24	36	14.5 ... 145	348	522	78			
	1 ... 16	24	36	14.5 ... 232	348	522	79			
	2 ... 25	40	75	29 ... 362	580	1087	80			
	4 ... 40	40	75	58 ... 580	580	1087	81			
	6 ... 60	100	160	87 ... 870	870	2320	82			
10 ... 100	100	160	145 ... 1450	870	2320	83				
Sensor	Sensor material	Sensor housing material	Thread	Range	Sensor material	Sensor housing material	Thread	Range		
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	72	900	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/2" male	72	959
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	73, 75	901	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/2" male	73, 75	952
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	76, 77	903	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/2" male	76, 77	954
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	78, 79	905	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/2" male	78, 79	956
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/4" female	80, 81	907	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/2" male	80, 81	958
	Stainless steel 1.4435	Brass (CuZn39Pb3)	G1/4" female	82, 83	940	Stainless steel 1.4435	Brass, nickel-plated	G1/4" female	72	800
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	72	909	Stainless steel 1.4435	Brass, nickel-plated	G1/4" female	73, 75	801
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	73, 75	902	Stainless steel 1.4435	Brass, nickel-plated	G1/4" female	76, 77	803
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	76, 77	904	Stainless steel 1.4435	Brass, nickel-plated	G1/4" female	78, 79	805
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	78, 79	906	Stainless steel 1.4435	Brass, nickel-plated	G1/4" female	80, 81	807
	Bronze bellows (CuSn6)	Brass (CuZn39Pb3)	G1/2" male	80, 81	908	Stainless steel 1.4435	Brass, nickel-plated	G1/4" female	82, 83	840
	Stainless steel 1.4435	Brass (CuZn39Pb3)	G1/2" male	82, 83	941	Stainless steel 1.4435	Brass, nickel-plated	G1/2" male	72	809
	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/4" female	72	950	Stainless steel 1.4435	Brass, nickel-plated	G1/2" male	73, 75	802
	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/4" female	73, 75	951	Stainless steel 1.4435	Brass, nickel-plated	G1/2" male	76, 77	804
	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/4" female	76, 77	953	Stainless steel 1.4435	Brass, nickel-plated	G1/2" male	78, 79	806
	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/4" female	78, 79	955	Stainless steel 1.4435	Brass, nickel-plated	G1/2" male	80, 81	808
	Bronze bellows (CuSn6)	Brass chemically nickel plated	G1/4" female	80, 81	957	Stainless steel 1.4435	Brass, nickel-plated	G1/2" male	82, 83	841

	XXX	XX	XX	XXX	XX	XX
Fixing	Direct on sensor or housing					00
	With mounting bracket					31
Accessories	Lead seal (manipulation protection)					16
	Screwed cable gland M20x1.5 (EN 50262) 					07
	Screwed cable gland M24x1.5 (DIN89280) 					27
	Screwed cable gland M18x1.5 (DIN89280) 					40
	Without screwed cable gland					33
	Railway version IEC 61373, category 2					28
	Damping elements and snubber see data sheet H72258					

- ¹⁾ Switching differential not adjustable
²⁾ Not suitable for applications under vibration

Standard products (extra short lead time)						
Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Switching differential [bar]	Diameter Y [mm]	Length X [mm]
P1.5	900 2672 900	-0.9 ... 1.5	10	0.1 (fixed)	45	56.5
P2.5	900 2675 901	0.2 ... 2.5	10	0.1 (fixed)	45	56.5
P4	900 2376 903	0 ... 4	12	0.2 (fixed)	33	47
P6	900 2377 903	0 ... 6	12	0.2 (fixed)	33	47
P10	900 2378 905	1 ... 10	24	0.4 (fixed)	27	42.5
P16	900 2379 905	1 ... 16	24	0.4 (fixed)	27	42.5
P25	900 2380 907	2 ... 25	40	1 (fixed)	33	47
P40	900 2381 907	4 ... 40	40	1 (fixed)	33	47
PS1.5	904 2672 900	-0.9 ... 1.5	10	0.1 (fixed)	45	56.5
PS2.5	904 2675 901	0.2 ... 2.5	10	0.1 (fixed)	45	56.5
PS6	904 2377 903	0 ... 6	12	0.2 (fixed)	33	47
PS16	904 2379 905	1 ... 16	24	0.4 (fixed)	27	42.5
PS40	904 2381 907	4 ... 40	40	1 (fixed)	27	42.5

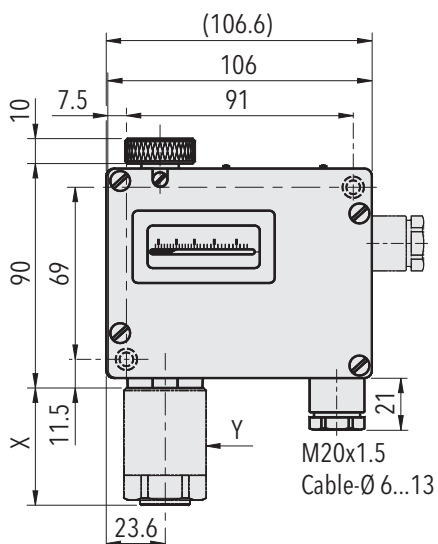


Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint ¹⁾	10 % ... 90 % FS
Environmental conditions	Ambient temperature	-25°C ... +70°C
	Media temperature	-40°C ... +150°C
	Storage temperature	-25°C ... +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	Screw terminal
	Cable gland	M20x1.5 Cable-Ø 6...13 mm
	Terminal screw	3 x 1.5...4 mm ²

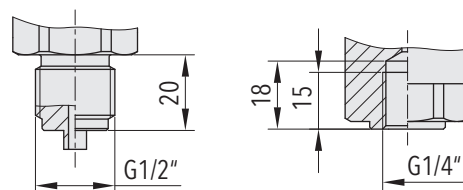
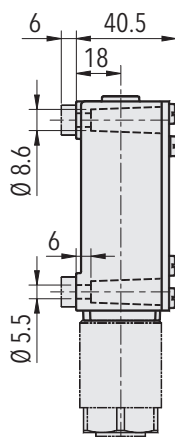
¹⁾ Other adjustment ranges upon request

Additional information		
Documents	Data sheet	www.trafag.com/H72252
	Instructions	www.trafag.com/H71261

Dimensions

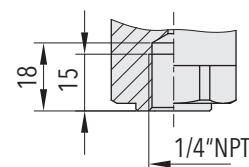


Dimension X and Y see data sheet H72271

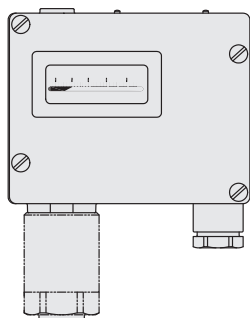


G1/2" male

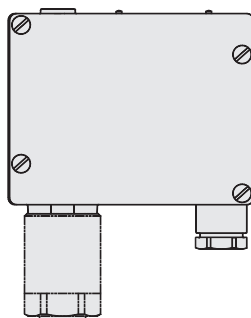
G1/4" female



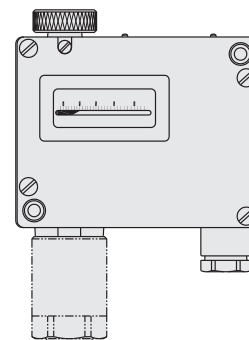
1/4" NPT female



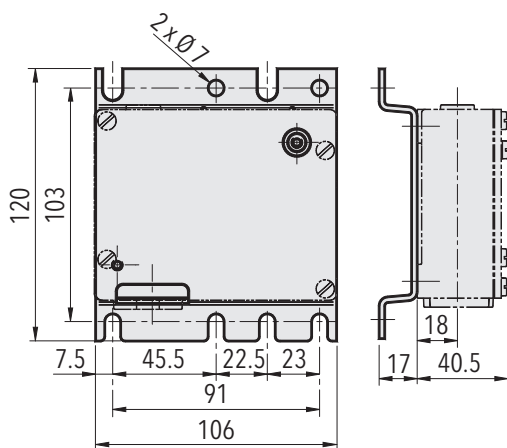
900.XX.XX.XXX.XX.XX



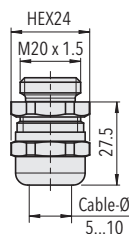
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912.XX.XX.XXX.XX.XX

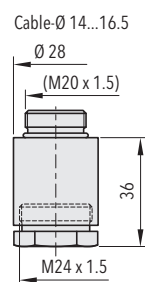


9XX.XX.XX.XXX.31.XX



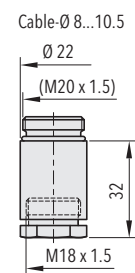
9XX.XX.XX.XXX.XX.07

M20x1.5



9XX.XX.XX.XXX.XX.27

M24x1.5



9XX.XX.XX.XXX.XX.40



M18x1.5



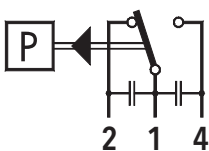
Switching differential typ. @ 25°C

Measuring range bellows sensor	[bar]	-0.9 ... 1.5 0.2 ... 1.6 0.2 ... 2.5	0 ... 4 0 ... 6	1 ... 10 1 ... 16	2 ... 25 4 ... 40	6 ... 60 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

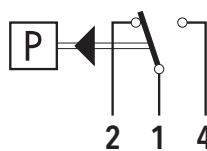
Electrical data switch

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