DIFFERENTIAL PRESSURE 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

Technical Data			
Measuring principle	Bellow	Repeatability	± 1.0 % FS typ.
Measuring range	-1 6 to -1 18 bar	Media temperature	-40°C +150°C
Differential pressure	-0.6 3.4 to 1 16 bar	Ambient temperature	-25°C +70°C
Output signal	1 Floating change-over contact (SPDT)	Approval / conformity	ABS, BV, CCS, DNV, GL, KRS, LRS, RINA EN60730-1/ EN60730-2-6: Typ 2.B.H
Switching differential	Not adjustable		

Ordering information/type code

Custom build code	With display and adjust Without display, with a With display and adjust	djusting screw				920 924 932	924			XX	XX X
Microswitch	Small switching differe	ntial, standard vibration res	sistance 1) 2)				10				
	Average switching diffe	rential, standard vibration	resistance 1)				11				
	Average switching diffe	rential, increased vibration	resistance •	1)			23				
	Large switching differen	ntial, high vibration resista	nce				26				
	With gold plated contact	cts, standard vibration resis	stance 1)				21				
Range	Range [bar]	Differential pres	ssure	Over pressure [bar]	Burst pre [bar]	ssure					
	-1 6	-0.6 3.4		12	26			74			
	-1 6	0 4		12	26			76			
	-1 8	0 6		12	26			77			
	-1 12	1 10		24	36			78			
	-1 18	1 16		24	36			79			
Sensor	Sensor material		Sensor ho	ousing material	Range	Thread					
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick		74	G1/4" fen	nale		830		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	74	G1/8" fen	nale		831		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	74	G1/2" ma	le		832		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	76,77	G1/8" fen	nale		833		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	76,77	G1/2" ma	le		834		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	76,77	G1/4" fen	nale		837		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	78, 79	G1/8" fen	nale		835		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	78, 79	G1/2" ma	le		836		
	Bellows: 1.4435, media	um contact. parts 1.4435	Brass nick	el plated	78, 79	G1/4" fen	nale		838		
	Bronze		Brass		74	G1/4" fen	nale		930		
	Bronze		Brass		74	G1/8" fen	nale		931		
	Bronze		Brass		74	G1/2" ma	ıle		932		
	Bronze		Brass		76,77	G1/8" fen	nale		933		
	Bronze		Brass		76,77	G1/2" ma	ıle		934		
	Bronze		Brass		76,77	G1/4" fen	nale		937		
	Bronze		Brass		78,79	G1/8" fen	nale		935		
	Bronze		Brass		78, 79	G1/2" ma	le		936		
	Bronze		Brass		78, 79	G1/4" fen	nale		938		
	Bronze		Brass cher	mically nickel plated	74	G1/4" fen	nale		980		
	Bronze		Brass cher	nically nickel plated	74	G1/8" fen	nale		981		
	Bronze		Brass cher	mically nickel plated	74	G1/2" ma	lle		982		
	Bronze			mically nickel plated	76,77	G1/8" fen	nale		983		
	Bronze		Brass cher	mically nickel plated	76,77	G1/2" ma	le		984		
	Bronze		Brass cher	nically nickel plated	76,77	G1/4" fen	nale		987		
	Bronze		Brass cher	nically nickel plated	78,79	G1/8" fen	nale		985		
	Bronze			mically nickel plated	78, 79	G1/2" ma	ile		986		
	Bronze		Brass cher	mically nickel plated	78, 79	G1/4" fen	nale		988		
Fixing	Direct on sensor or hou	sina								00	
9	By mounting bracket	5y								31	
	b) mounting blacket									31	



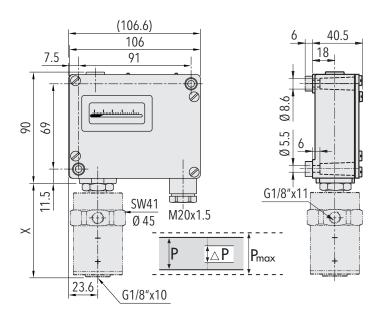
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PD 920/924/932

		XXX	XX	XX	XXX	XX	XX
Accessories	Lead seal (manipulation protection)						16
	Screwed cable gland M20x1.5 (EN50262)						07
	Screwed cable gland M24x1.5 (DIN89280)						27
	Screwed cable gland M18x1.5 (DIN89280)						40
	Adapter G1/8" male - G1/2" male, Brass						A6
	Adapter G1/8" male - G1/2" male, Brass nickel plated						В6
	Adapter G1/8" male - G1/2" male, Stainless steel 1.4435						D6
	Adapter G1/8" male - G1/4" female, Brass						A5
	Adapter G1/8" male - G1/4" female, Brass nickel plated						B5
	Adapter G1/8" male - G1/4" female, Stainless steel 1.4435						D5
	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]	Differential pressure [bar]	Over pressure max. [bar]	Switching differen- tial [bar]	Length X [mm]
PD3.4	920 2374 931	-1 +6	-0.6 +3.4	12	0.16 (fixed)	77
PD6	920 2377 933	-1 +8	0 6	12	0.16 (fixed)	77
PD16	920 2379 935	-1 18	1 16	24	0.4 (fixed)	87





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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: 525 Hz: ± 1.6 mm 25100 Hz: $4g$
	Shock	50g/ 11ms
Mechanical Data	Sensor	See ordering information
	Housing	AlSi10Mg/ Epoxy coated
	Sealing	NBR
	Screwed cable gland	Brass nickel plated
	Mounting torque	Max. 25 Nm
	Installation	any position
	Weight	~ 610 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ
	Dielectric strength	$U \le 250V$: 1.45 kV/ $U \le 500V$: 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	Terminal screw
	Cable gland	M20x1.5 Cable-Ø 613 mm
	Terminal screw	3 x 1.54 mm ²

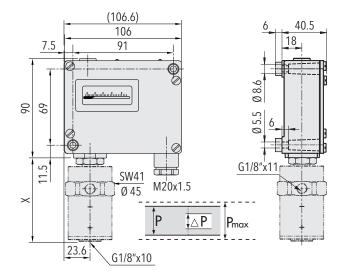
¹⁾ Other adjustment ranges upon request

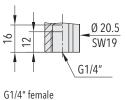
Additional information						
Documents	Data sheet	www.trafag.com/H72253				
	Instructions	www.trafag.com/H73256				
	Flyer	www.trafag.com/H70914				

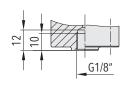


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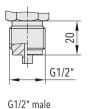
Dimensions



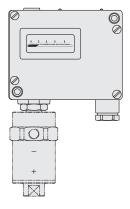


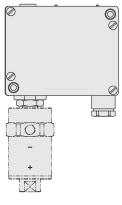


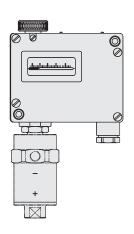
G1/8" female



Dimension X and Y see data sheet H72271



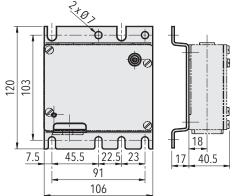




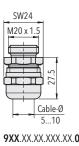
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924.XX.XX.XXX.XXX

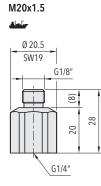
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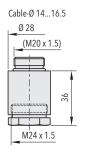
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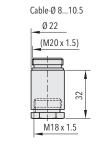
9XX.XX.XX.XXX.XX.07 M20x1.5



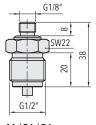
A5 / B5 / D5



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



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



A6 / B6 / D6

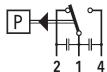


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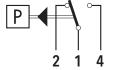
Switching differential typ. @ 25°C					
Range of piston sensor	[bar]	-1 6 -1 8	-1 12 -1 18		
Microswitch 10 Switching differential (not adjustable)	[bar]	0.08	0.2		
Microswitch 11/21/23 Switching differential (not adjustable)	[bar]	0.16	0.4		
Microswitch 26 Switching differential (not adjustable)	[bar]	0.25	0.5		

Electrical data switch					
		Rating Resistive Load (Inductive Load)			
Туре	Features	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



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