Subject to change

sensors (controls

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	Bellows	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: Type 2.B.H
Switching differential	Not adjustable		

Industriestrasse 11

8608 Bubikon

Ordering information/type code

Custom build code	With display and adjusting screw 920 Without display, with adjusting screw 934 With display and adjusting knob 932					***	K XX	X .			
Microswitch	Small switching differential, standard vibration resistance 1) 2)						10				
	Average switching differential, standard vibration resistance 1)						11				
	Average switching diffe	erential, increased vibration	resistance	<u> </u>			23				
		ential, high vibration resistar					26				
		acts, standard vibration resis					21				
Range	Range [bar]	Differential pres [bar]	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			
iensor	Sensor material		Sensor h	ousing material	Range	Thread					
	Bellows: 1.4435, medi	ium contact. parts 1.4435		kel plated	74	G1/4" fem	ale		830		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	74	G1/8" fem	iale		831		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	74	G1/2" ma	le		832		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	76,77	G1/8" fem	iale		833		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	76,77	G1/2" ma	le		834		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	76,77	G1/4" fem	iale		837		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	78,79	G1/8" fem	iale		835		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	78, 79	G1/2" ma	le		836		
	Bellows: 1.4435, medi	ium contact. parts 1.4435	Brass nic	kel plated	78, 79	G1/4" fem	iale		838		
	Bronze		Brass		74	G1/4" fem	iale		930		
	Bronze		Brass		74	G1/8" fem	iale		931		
	Bronze		Brass		74	G1/2" ma	le		932		
	Bronze		Brass		76,77	G1/8" fem	iale		933		
	Bronze		Brass		76,77	G1/2" ma	le		934		
	Bronze		Brass		76,77	G1/4" fem	iale		937		
	Bronze		Brass		78,79	G1/8" fem	iale		935		
	Bronze		Brass		78, 79	G1/2" ma	le		936		
	Bronze		Brass		78,79	G1/4" fem	ale		938		
	Bronze		Brass che	emically nickel plated	74	G1/4" fem	iale		980		
	Bronze		Brass che	emically nickel plated	74	G1/8" fem	ale		981		
	Bronze			emically nickel plated	74	G1/2" ma	le		982		
	Bronze			emically nickel plated	76,77	G1/8" fem	iale		983		
	Bronze			emically nickel plated	76,77	G1/2" ma			984		
	Bronze			emically nickel plated	76,77	G1/4" fem	iale		987		
	Bronze		Brass che	emically nickel plated	78, 79	G1/8" fem	ale		985		
	Bronze		Brass che	emically nickel plated	78, 79	G1/2" ma	le		986		
	Bronze		Brass che	emically nickel plated	78, 79	G1/4" fem	ale		988		
ixing	Direct on sensor or hou	using								00	
		J									



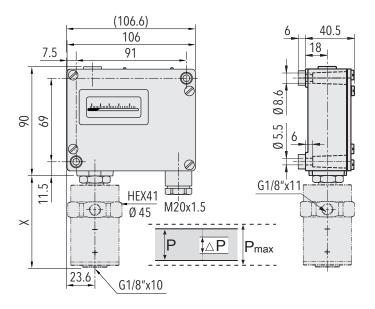
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PD 920/924/932

		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 switch point 1)	0 100% Differential pressure
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: 4 g
	Shock	50 g / 11 ms
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	Screw terminal
	Cable gland	M20x1.5 Cable-Ø 613 mm
	Terminal screw	3 x 1.54 mm ²

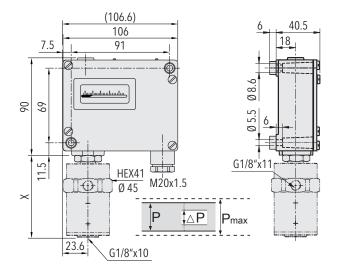
¹⁾ Other adjustment ranges upon request

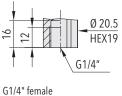
Additional information				
Documents	Data sheet	www.trafag.com/H72253		
	Instructions	www.trafag.com/H73256		

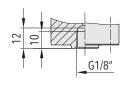


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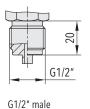
Dimensions



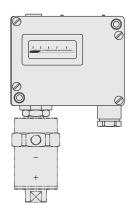




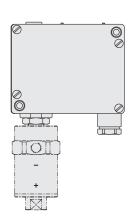
G1/8" female



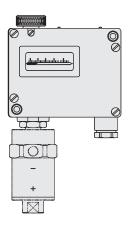
Dimension X and Y see data sheet H72271



920.XX.XX.XXX.XXX



924.XX.XX.XXX.XXX



932.XX.XX.XXX.XXX.XX

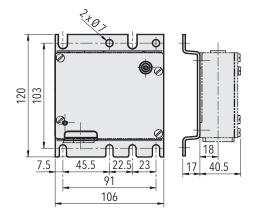
Cable-Ø 14...16.5

(M20 x 1.5)

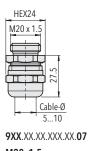
M24 x 1.5

M24x1.5

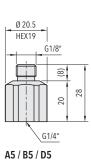
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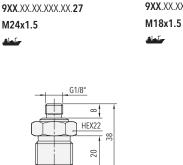
9XX.XX.XX.XXX.31.XX



M20x1.5



HEX22 Щ G1/2" A6 / B6 / D6





Cable-Ø 8...10.5

(M20 x 1.5)

M18 x 1.5

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

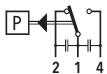
Ø 22

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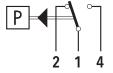
Switching differential typ. @ 25°C			
Range of piston sensor	[bar]	-1 6 -1 8	-1 12 -1 18
Microswitch 10 Switching differential (not adjustable)	[bar]	0.08	0.2
Microswitch 11/21/23 Switching differential (not adjustable)	[bar]	0.16	0.4
Microswitch 26 Switching differential (not adjustable)	[bar]	0.25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



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