PRESSOSTAT

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





Applications

Potentially hazardous areas

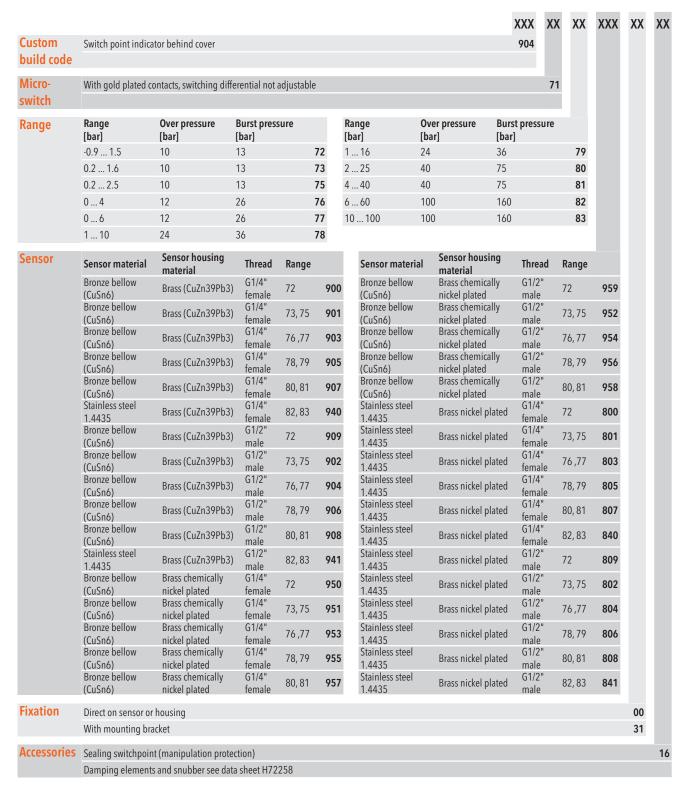
Features

- Compact design
- Rugged housing
- Protection IP65
- Any mounting position possible
- May be used as "simple apparatus" in zones at risk of explosions

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	EN60730-1/ EN60730-2-6: Typ 2.B.H EN60079-0, EN60079-11 Zone 1 and 2, 21 and 22



Ordering information/type code



Optional accessories of third party supplier

Ex-i barriers are suitable for intrinsically safe applications. The device transmits binary signals from the hazardous area into the safe area.

Ex-i-barriers: 24 VDC $U_0 = 10.5 \text{ V/ I}_0 = 13 \text{ mA/ P}_0 = 34 \text{ mW} =$	ZEN24VDC
Ex-i-barriers: 230 VAC $U_0 = 10.6 \text{ V/ } I_0 = 19.1 \text{ mA/ } P_0 = 51 \text{ mW} =$	ZEN230VAC

i

Pressostats, when combined with a certified Ex-barrier (see "optional accessories of third party supplier"), can be used as "simple electrical apparatus" in Zone 1 and 2, as well as in Zone 21 and 22, according to IEC/EN 60079-14. These pressostats are not suitable for Zone 0 and Zone 20. Use in safety relevant applications (approved electrical apparatus) is not permitted.



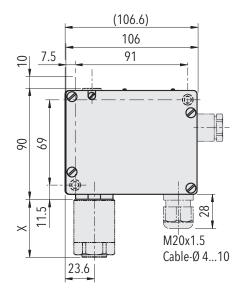
Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint 1)	10 % 90 % FS
Environmental conditions	Ambient temperature	-25°C +70°C
	Media temperature	-40°C +150°C
	Storage temperature	-25°C +85°C
	Protection	IP65
	Humidity	Max.95 % relative
	Vibration	525 Hz: ±1.6 mm 25100 Hz: 4 g Ranges 72, 73, 75 550 Hz: 20 mm/sec.
	Shock	50 g / 11 ms
Mechanical Data	Sensor	See ordering information
	Housing	AlSi10Mg/ Epoxy coated
	Sealing	NBR
	Screwed cable gland	Polyamide (PA), light blue
	Mounting torque	Max. 25 Nm
	Installation	any position
	Weight	~ 710 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ
	Dielectric strength	1.25 kV terminal ground
	Life time (mechanical)	1 Mio. cycles
Electrical connection	Cable gland	M20x1.5 Cable-Ø 410 mm, max. cable length according to EN 60079-11
	Terminal screw	3 x 1.54 mm ²

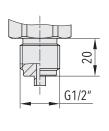
¹⁾ Other adjustment ranges upon request

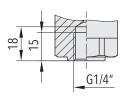


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Dimensions



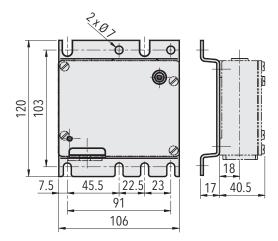




G1/2" male

G1/4" female

904.71.XX.XXX.XXX.XXX
Dimension X see data sheet H72271



904.XX.XX.XXX.31.XX

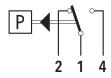


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Switching differential typ. @ 25°C						
Measuring range bellows sensor	[bar]	-0.9 1.5 0.2 1.6 0.2 2.5	0 4 0 6	1 10 1 16	2 25 4 40	6 60 10 100
Microswitch 71: Switching differential not adjustable	[bar]	0.1	0.2	0.4	1.0	3.0

Electrical data switch		
Туре	Features	Rating
71	Gold plated contacts	$U_0 = 24 \text{ V}$
		$U_0 = 24 \text{ V}$ $I_0 = 100 \text{ mA}$
		$P_0 = 600 \text{ mW}$

Electrical connection



904

Additional information		
Documents	Data sheet	www.trafag.com/H72364
	Instructions	www.trafag.com/H73175
	Flyer	www.trafag.com/H70919

