PRESSOSTAT

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



Applications

- Machine tools
- Medium voltage switchgear

Features

- Compact design
- Receptacle for tabs (IEC) 2.8 x 0.5 mm
- Any mounting position possible
- Adjustment in factory
- Leakage < 10^{-7} mbar·l/s

08/2014
Data sheet H72272n
Subject to change

Technical Data			
Measuring principle	Bellow	Switching point	Adjustment in factory
Measuring range	-0.3 ... 1.3 to 1 ... 10 bar	Repeatability	± 1.0 % FS typ.
Output signal	Floating change-over contact	Media temperature	-25°C ... 80°C
Switching differential	Not adjustable	Approval	EN60730-1/ EN60730-2-6: Typ 2.B.H

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trafag sensors controls

Ordering information/type code

		XXX	XX	XX	XXX	XX	XX	XX
Custom build code	1-stage pressure switch	**987**						
	2-stage pressure switch	**988**						
Microswitch	Standard contacts, switching differential not adjustable		**42**					
	Gold plated contacts, switching differential not adjustable		**84**					

Range	**Range [bar]**	**Over pressure [bar]**	**Burst pressure [bar]**	
	-0.3 ... 1.3	-1 ... 4	10	**72**
	0 ... 1.6	-1 ... 4	10	**73**
	0 ... 2.5	-1 ... 4	10	**75**
	0 ... 4	-1 ... 6	10	**76**
	1 ... 10	-1 ... 15	15	**78**

Sensor	**Sensor material**	**Pressure connection**	**Range**	
	Bellows: 1.4301 (AISI 304)	1.4301 (AISI 304), with groove for o-ring	73, 75	**847**
	Bellows: 1.4301 (AISI 304)	1.4301 (AISI 304), with groove for O-ring	76	**846**
	Bellows: Bronze (CuSn6)	Brass (CuZn39Pb3), without groove for O-ring	72, 73, 75	**947**
	Bellows: Bronze (CuSn6)	Brass (CuZn39Pb3), without groove for O-ring	76	**946**
	Bellows: Bronze (CuSn6)	Brass (CuZn39Pb3), without groove for O-ring	78	**945**
	Bellows: Bronze (CuSn6)	Brass (CuZn39Pb3), with groove for O-ring	72, 73, 75	**949**
	Bellows: Bronze (CuSn6)	Brass (CuZn39Pb3), with groove for O-ring	76	**948**
	Bellows: Bronze (CuSn6)	Brass (CuZn39Pb3), with groove for O-ring	78	**939**

Code number	Specified by Trafag	**XX**	
Fixing	Direct on sensor or housing		**00**
Accessories	Receptacles for flat plugs (2.8 x 0.5 mm) and insulator for flat plugs (2 x 6 pcs.)		**09**
	Switch point adjustment switch I (lower switching point) and switch II (upper switching point) Please indicate for each switch when ordering: - Switching point including measurement unit (kPa, bar, MPa, psi, abs. or rel.) - Increasing or decreasing		
	Damping elements and snubber see data sheet H72258		

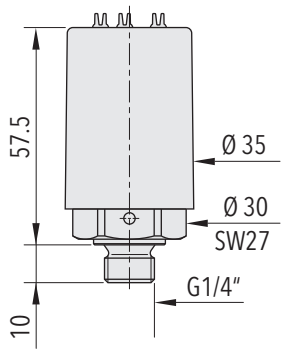
Specifications

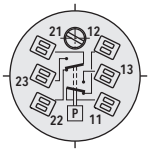
Accuracy	Repeatability	± 1.0 % FS typ.
	Switching differential	See table
Environmental Conditions	Ambient temperature	-25°C ... 70°C
	Media temperature	-25°C ... 80°C
	Storage temperature	-40°C ... 80°C
	Protection	IP40 (Microswitch IP67)
	Humidity	Max.95 % relative
	Vibration	5 ... 100 Hz: 2 g
	Shock	50g/ 11ms
Mechanical Data	Sensor	See ordering information
	Housing	PBTP, Crastin
	Mounting torque	Max. 25 Nm
	Installation	Any position
	Weight	~ 110 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ, 500 VDC
	Dielectric strength	2 kV terminal ground
	Life time (mechanical)	2 Mio. cycles

Additional information

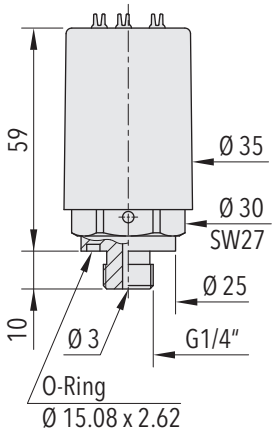
Documents	Data sheet	www.trafag.com/H72272
	Instructions	www.trafag.com/H73272
	Flyer	www.trafag.com/H70915

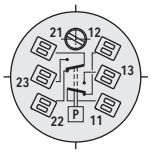
Dimensions





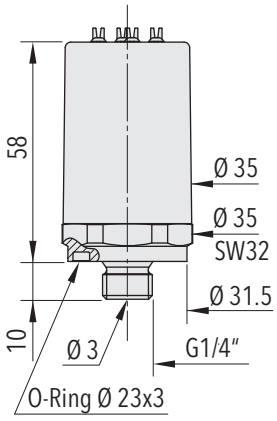
98X.XXXX.**945/946/947**

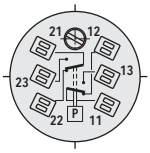




98X.XXXX.**939/948/949**

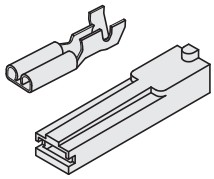
(O-Ring is not included in delivery)





98X.XXXX.**846/847**

(O-Ring is not included in delivery)



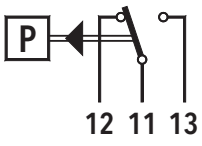
98X.XXXX.XXX.XX.XX.**09**

Switching differential typ.						
Range of bellows sensor	**[bar]**	**-0.3 ... 1.3**	**0 ... 1.6**	**0 ... 2.5**	**0 ... 4**	**1 ... 10**
P max.	**[bar]**	-1 ... 4	-1 ... 4	-1 ... 4	-1 ... 6	-1 ... 15
Microswitch 33/35 Switching differential (fixed value, not adjustable)	**[bar]**	0.1	0.1	0.2	0.3	0.6
Tolerance of setting	**[bar]**	±0.08	±0.08	±0.12	±0.16	±0.2
Range of adjustable switch points increasing	**[bar]**	-0.3 ... 1.4	0.2 ... 1.7	0.3 ... 3.2	0.4 ... 4.8	0.5 ... 11*
Range of adjustable switch points decreasing	**[bar]**	-0.4 ... 1.3	0.1 ... 1.6	0.1 ... 3.0	0.1 ... 4.5	0.2 ... 10*

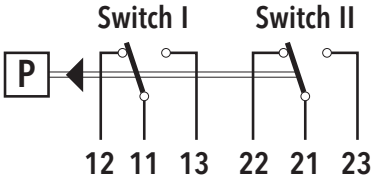
***** Pressure range 1 ... 10 bar: Max. 2 bar switchpoint difference

Electrical data switch			
		Rating Resistive Load (Inductive Load)	
Type	**Features**	**AC**	**DC**
42 (Standard)	Silver contacts	250 V, 6 (1) A	220 V, 0.25 (0.1) A 110 V, 0.5 (0.2) A 60 V, 1(0.5) A 24 V, 3 (2) A 12 V, 6 (6) A
84	Gold plated contacts, suitable for intrinsically safe control circuits	max. 30 V, 0.1 (0.1) A min. 5 V, 5 mA	

Electrical Connection



987



988