

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

- Steel or bronze bellows
- Blade connector (IEC) 2.8 x 0.5 mm
- Compact design
- Adjustment in factory

02/2017

Data sheet H72272r

Technical Data

Measuring principle	Bellow	Repeatability	± 1.0 % FS typ.
Measuring range	-0.3 ... 1.3 to 1 ... 10 bar	Media temperature	-25°C ... +80°C
Output signal	1 or 2 floating change-over contacts (SPDT)	Ambient temperature	-25°C ... +70°C
Switching differential	Not adjustable	Approval / conformity	EN60730-1/ EN60730-2-6: Typ 2.B.H
Switching point	Adjustment in factory		

Subject to change

Ordering information/type code

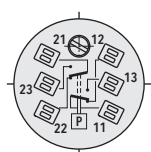
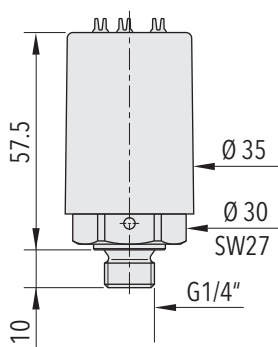
				XXX	XX	XX	XXX	XX	XX	XX
Custom build code	1 Floating change-over contact (SPDT)			987						
	2 Floating change-over contacts (SPDT)			988						
Microswitch	Standard contacts, switching differential not adjustable				42					
	Gold plated contacts, switching differential not adjustable				84					
Range	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	Blade receptacle (2.8 x 0.5 mm) and insulator for flat plugs (2 x 6 pcs.)									09
	Switchpoint fixed and sealed upon customer's request									88
	Switchpoint preset upon customer's request, no guarantee on switching accuracy									83
	Switchpoint adjustment switch I (lower switchpoint) and switch II (upper switchpoint)									
	Please indicate for each switch when ordering:									
	- Switchpoint [bar]									
	- Increasing or decreasing									
	Routine test of leakage rate $< 10^{-7}$ mbar-l/s									05
	Damping elements and snubber see data sheet H72258									

Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint ¹⁾	10% ... 90% FS
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
	Sealing	-
	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
Electrical connection	Electrical connections	Blade connector
	Blade connector	IEC 2.8 x 0.5 mm 0.75...1 mm ²

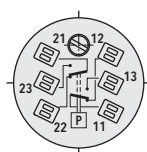
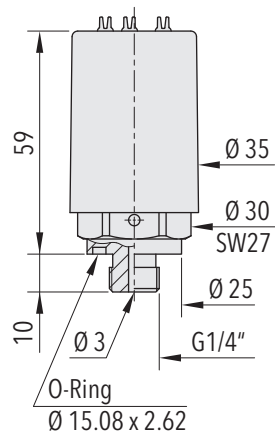
¹⁾ Pressure range 1 ... 10 bar: Max. 2 bar switchpoint difference between switch I and switch II
Other adjustment ranges upon request

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

Dimensions

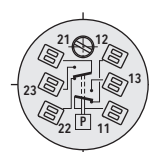
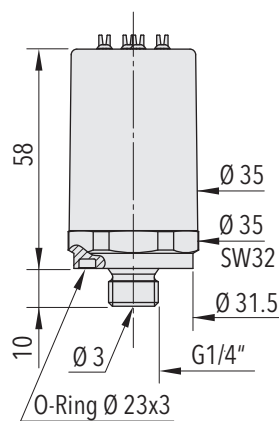


98X.XXXX.945/946/947



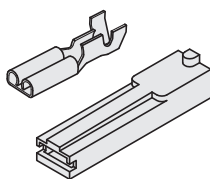
98X.XXXX.939/948/949

(O-Ring not included in delivery)



98X.XXXX.846/847

(O-Ring not included in delivery)



98X.XXXX.XXXX.XX.XX.09

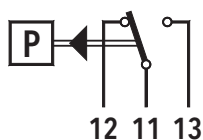
Switching differential typ. @ 25°C

Measuring range of bellows sensor	[bar]	-0.3 ... 1.3	0 ... 1.6	0 ... 2.5	0 ... 4	1 ... 10
Microswitch 42/84 Switching differential (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

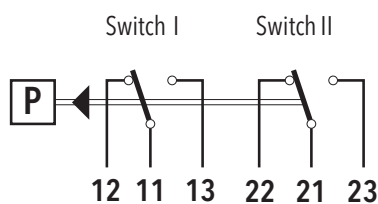
Electrical data switch

		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