«Simple Apparatus» conformity to ATEX 924

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

- Potentially explosive atmosphere

Features

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

02/2017

Data sheet H72365e

Subject to change

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 to1 ... 16 bar	Ambient temperature	-25°C ... +70°C
Output signal	1 Floating change-over contact (SPDT)	Approval / conformity	EN60730-1/ EN60730-2-6: Typ 2.B.H EN60079-0, EN60079-11 Zone 1 and 2, 21 and 22
Switching differential	Not adjustable		

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trafag sensors controls

«Simple Apparatus» conformity to ATEX 924

Ordering information/type code

		XXX	XX	XX	XXX	XX	XX
Custom build code	Switch point indicator behind cover	**924**					
Microswitch	With gold plated contacts, switching differential not adjustable		**71**				

Range	Range [bar]	Differential pressure [bar]	Over pressure [bar]	Burst pressure [bar]	
	-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 housing material	Thread	Range	
Bronze	Brass	G1/8" female	74	**931**
Bronze	Brass	G1/8" female	76, 77	**933**
Bronze	Brass	G1/8" female	78, 79	**935**
Bronze	Brass	G1/4" female	74	**930**
Bronze	Brass	G1/4" female	76, 77	**937**
Bronze	Brass	G1/4" female	78, 79	**938**
Bronze	Brass	G1/2" male	74	**932**
Bronze	Brass	G1/2" male	76, 77	**934**
Bronze	Brass	G1/2" male	78, 79	**936**
Bronze	Brass chemically nickel plated	G1/8" female	74	**981**
Bronze	Brass chemically nickel plated	G1/8" female	76, 77	**983**
Bronze	Brass chemically nickel plated	G1/8" female	78, 79	**985**
Bronze	Brass chemically nickel plated	G1/4" female	74	**980**
Bronze	Brass chemically nickel plated	G1/4" female	76, 77	**987**

Sensor material	Sensor housing material	Thread	Range	
Bronze	Brass chemically nickel plated	G1/4" female	78, 79	**988**
Bronze	Brass chemically nickel plated	G1/2" male	74	**982**
Bronze	Brass chemically nickel plated	G1/2" male	76, 77	**984**
Bronze	Brass chemically nickel plated	G1/2" male	78, 79	**986**
Stainless steel, 1.4435	Brass nickel plated	G1/8" female	74	**831**
Stainless steel, 1.4435	Brass nickel plated	G1/8" female	76, 77	**833**
Stainless steel, 1.4435	Brass nickel plated	G1/8" female	78, 79	**835**
Stainless steel, 1.4435	Brass nickel plated	G1/4" female	74	**830**
Stainless steel, 1.4435	Brass nickel plated	G1/4" female	76, 77	**837**
Stainless steel, 1.4435	Brass nickel plated	G1/4" female	78, 79	**838**
Stainless steel, 1.4435	Brass nickel plated	G1/2" male	74	**832**
Stainless steel, 1.4435	Brass nickel plated	G1/2" male	76, 77	**834**
Stainless steel, 1.4435	Brass nickel plated	G1/2" male	78, 79	**836**

Fixation		
	Direct on sensor or housing	**00**
	With mounting bracket	**31**

Accessories		
	Lead seal (manipulation protection)	**16**
	Adapter G1/8" male - G1/2" male, Brass	**A6**
	Adapter G1/8" male - G1/2" male, Brass nickel plated	**B6**
	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	

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 V/ I_0 = 13 mA/ P_0 = 34 mW =	**ZEN24VDC**
Ex-i-barriers: 230 VAC U_0 = 10.6 V/ I_0 = 19.1 mA/ P_0 = 51 mW =	**ZEN230VAC**

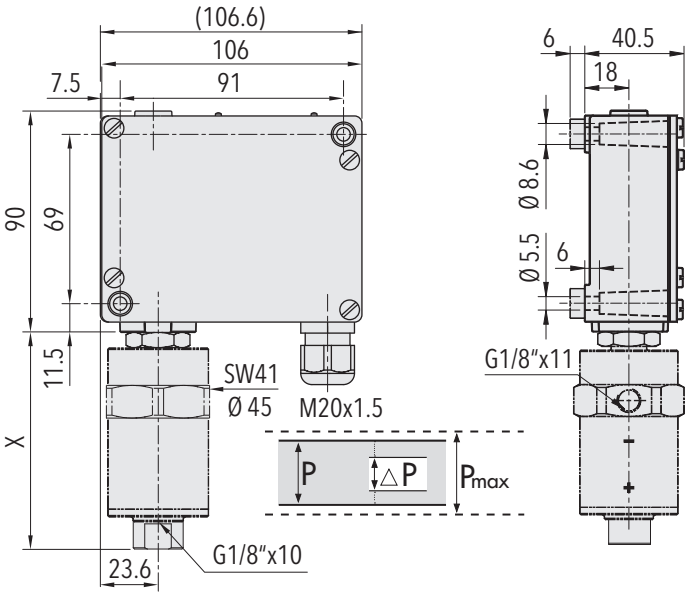
Pressostats, when combined with a certified Ex-barrier (see "optional accessories of third party supplier"), can be used as "simple electrical apparatus" in Zone 1 and 2, as well as in Zone 21 and 22, according to IEC/EN 60079-14. These pressostats are not suitable for Zone 0 and Zone 20. Use in safety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

«Simple Apparatus» conformity to ATEX 924

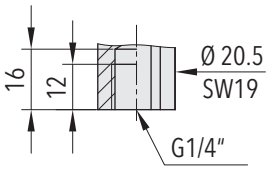
Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint [1)]	10% ... 90% FS
Environmental conditions	Ambient temperature	-25°C ... +70°C
	Media temperature	-40°C ... +150°C
	Storage temperature	-25°C ... +85°C
	Protection	IP65
	Humidity	Max. 95 % relative
	Vibration	5...25 Hz: ±1.6 mm 25...100 Hz: 4g
	Shock	50g/ 11ms
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	~ 610 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 4...10 mm, max. cable length according to EN 60079-11
	Terminal screw	3 x 1.5...4 mm²

[1)] Other adjustment ranges upon request

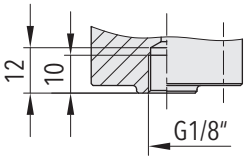
Dimensions



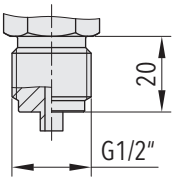
924.71.XX.XXX.XX.XX
Dimension X see data sheet H72271



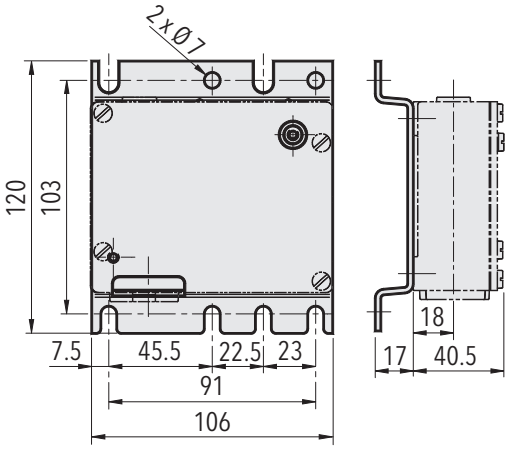
G1/4" female

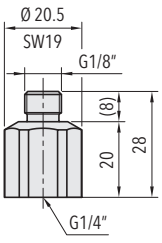


G1/8" female

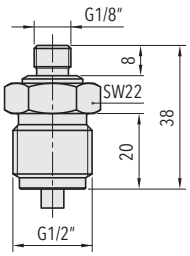


G1/2" male





A5/B5/D5



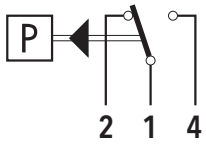
A6/B6/D6

924.XX.XX.XXX.**31**.XX

Switching differential typ. @ 25°C			
Measuring range bellows sensor	**[bar]**	-1 ... 6 -1 ... 8	-1 ... 12 -1 ... 18
Microswitch 71: Switching differential not adjustable	**[bar]**	0.16	0.4

Electrical data switch		
Type	**Features**	**Rating**
71	Gold plated contacts	U_0 = 24 V I_0 = 100 mA P_0 = 600 mW

Electrical connection



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Additional information		
Documents	Data sheet	www.trafag.com/H72365
	Instructions	www.trafag.com/H73175
	Flyer	www.trafag.com/H70920