

EX PRESSOSTAT

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



Applications

- Ex II 2G / D

Features

- Rugged aluminium housing, option: housing stainless steel
- Protection IP66
- Any mounting position possible
- Ex db eb IIC T6 Gb
- Ex tb IIIC T80°C Db

03/2024

Data sheet H72270u

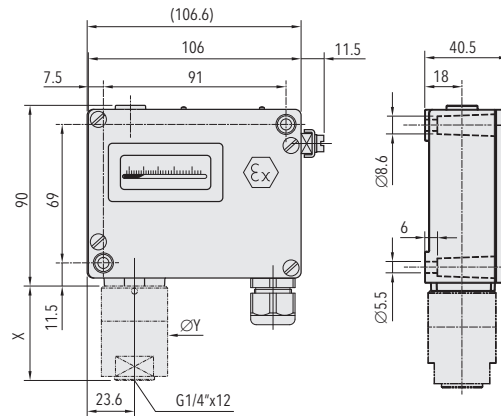
Technical Data

Measuring principle	Piston	Media temperature	NBR: -30°C ... +100°C FPM: -15°C ... +150°C
Measuring range	1 ... 10 to 60 ... 600 bar	Ambient temperature	-40°C ... +65°C
Output signal	1 Floating change-over contact (SPDT)	Approval / conformity	IECEx, ATEX, UKEX
Switching differential	Not adjustable	Type of protection	Areas with gas explosion hazards: II 2G Ex db eb IIC T6 Gb; Areas with dust explosion hazards: II 2D Ex tb IIIC T80°C Db
Repeatability	± 1.0 % FS typ.		

Subject to change

Standard products (extra short lead time)

Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Switching differential [bar]	Diameter Y [mm]	Length X [mm]
EXPK10	944 9178 700	1 ... 10	100	0.4 ... 0.8 (fixed)	33	47
EXPK40	944 9181 704	4 ... 40	200	2 ... 5 (fixed)	27	42.5
EXPK100	944 9183 708	10 ... 100	200	4 ... 11 (fixed)	27	42.5
EXPK250	944 9185 712	25 ... 250	400	8 ... 26 (fixed)	27	42.5

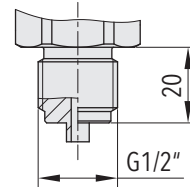
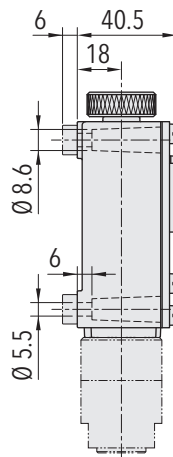
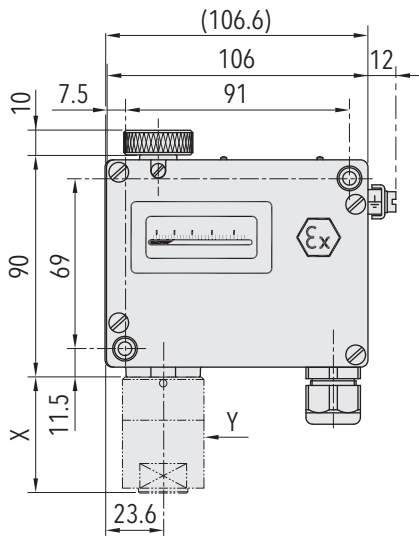


Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switch point ¹⁾	10 % ... 90 % FS
Environmental conditions	Ambient temperature	-40°C ... +65°C
	Media temperature	NBR: -30°C ... +100°C FPM: -15°C ... +150°C
	Storage temperature	-50°C ... +65°C
	Protection	IP66 Accessory 06: IP66
	Humidity	Max. 95 % relative
	Vibration	5...25 Hz: ±1.6 mm 25...100 Hz: 4 g
	Shock	50 g / 11 ms
Mechanical data	Sensor	See ordering information
	Housing	AlSi10Mg/ Epoxy coated Accessory 06: 1.4301 (AISI 304)
	Sealing	NBR / FPM
	Screwed cable gland	Polyamide (PA)
	Mounting torque	Max. 25 Nm
	Installation	any position
	Weight	~ 710 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ
	Dielectric strength	1.5 kV
	Life time (mechanical)	1 Mio. cycles
Electrical connection	Electrical connections	Screw terminal
	Cable gland	M20x1.5/HEX24 Cable-Ø 4.0 – 13.0 mm
	Terminal screw	3 x 1 ... 2.5 mm ² Permitted cable-Ø ranges 4.0 – 13.0 mm

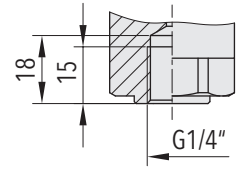
¹⁾ Other adjustment ranges upon request

Additional information		
Documents	Data sheet	www.trafag.com/H72270
	Instructions	www.trafag.com/H73171
	Flyer	www.trafag.com/H70917

Dimensions

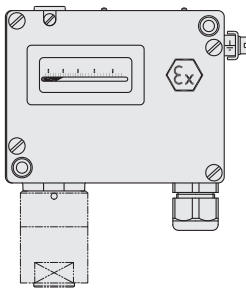


G1/2" male

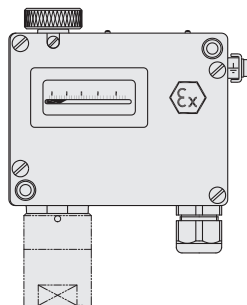


G1/4" female

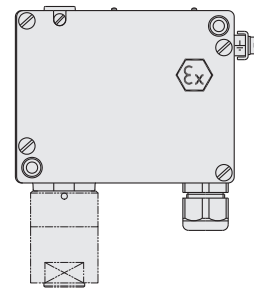
Dimension X and Y see data sheet H72271



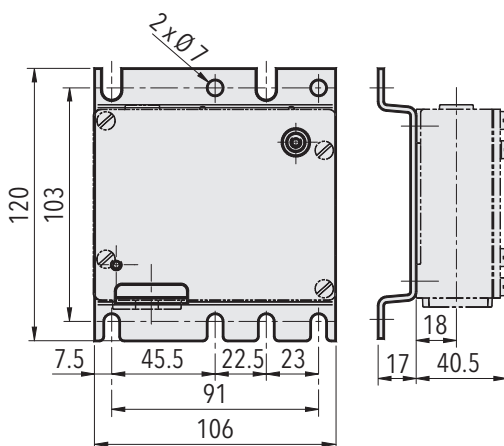
944



953



947



9XX.XXXX.XXX.31

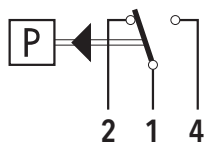
Switching differential typ. @ 25°C

Measuring range of piston sensor	[bar]	1 ... 10	4 ... 40	6 ... 60	10 ... 100
Microswitch 91	[bar]	0.4 ... 0.8	2 ... 5	3 ... 8	4 ... 11
Switching differential: Variable according to set point (not adjustable)					
Measuring range of piston sensor	[bar]	16 ... 160	25 ... 250	40 ... 400	60 ... 600
Microswitch 91	[bar]	6 ... 18	8 ... 26	14 ... 42	24 ... 65
Switching differential: Variable according to set point (not adjustable)					

Electrical data switch

		Rating Resistive Load (Inductive Load)	
Type	Features	AC	DC
91	Standard Ex	250V 5(5) A 125V 5(5) A	250 V 0.25 (0.03) A 125 V 0.5 (0.06) A 75 V 0.75 (0.25) A 50 V 1 (1) A 30 V 5 (3) A 15 V 5 (3) A

Electrical connection



Switch 91