



Applications

-  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

Technical Data

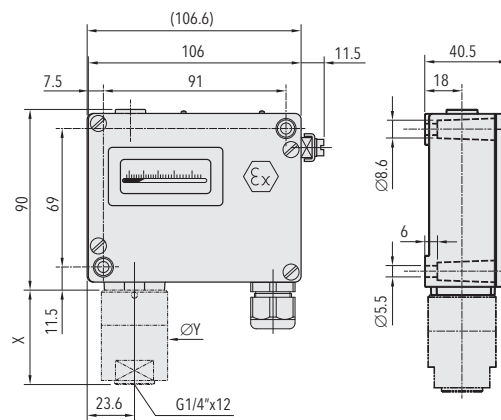
Measuring principle	Piston	Media temperature	NBR: -30°C ... +100°C FKM: -15°C ... +150°C
Measuring range	1 ... 10 to 60 ... 600 bar	Ambient temperature	-50°C ... +65°C
Output signal	1 Floating change-over contact (SPDT)	Approval / conformity	SEV 15 ATEX 0157 X IECEx SEV 17.0013X
Switching differential	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.		

Ordering information/type code

						XXX	XX	XX	XXX	XX	XX
Custom build code	With display and adjusting screw					944					
	Without display, with adjusting screw					947					
	With display and adjusting knob					953					
Microswitch	Standard, switching differential not adjustable					91					
Range	Range [bar]	Over pressure [bar]		Burst pressure [bar]							
	1 ... 10	100		200					78		
	4 ... 40	200		400					81		
	6 ... 60	200		400					82		
	10 ... 100	200		400					83		
	16 ... 160	400		600					84		
	25 ... 250	400		600					85		
	40 ... 400	800		1000					86		
	60 ... 600	800		1000					87		
Sensor	Sensor material	Sensor housing material	Thread	Range		Sensor material	Sensor housing material	Thread	Range		
	Piston 1.4435, O-Ring NBR	1.4435	G1/4" female	78	700	Piston 1.4435, O-Ring FKM	1.4435	G1/4" female	82, 83	709	
	Piston 1.4435, O-Ring NBR	1.4435	G1/2" male	78	702	Piston 1.4435, O-Ring FKM	1.4435	G1/2" male	82, 83	711	
	Piston 1.4435, O-Ring FKM	1.4435	G1/4" female	78	701	Piston 1.4435, O-Ring NBR	1.4435	G1/4" female	84, 85	712	
	Piston 1.4435, O-Ring FKM	1.4435	G1/2" male	78	703	Piston 1.4435, O-Ring NBR	1.4435	G1/2" male	84, 85	714	
	Piston 1.4435, O-Ring NBR	1.4435	G1/4" female	81	704	Piston 1.4435, O-Ring FKM	1.4435	G1/4" female	84, 85	713	
	Piston 1.4435, O-Ring NBR	1.4435	G1/2" male	81	706	Piston 1.4435, O-Ring FKM	1.4435	G1/2" male	84, 85	715	
	Piston 1.4435, O-Ring FKM	1.4435	G1/4" female	81	705	Piston 1.4435, O-Ring NBR	1.4435	G1/4" female	86, 87	722	
	Piston 1.4435, O-Ring FKM	1.4435	G1/2" male	81	707	Piston 1.4435, O-Ring NBR	1.4435	G1/2" male	86, 87	724	
	Piston 1.4435, O-Ring NBR	1.4435	G1/4" female	82, 83	708	Piston 1.4435, O-Ring FKM	1.4435	G1/4" female	86, 87	723	
	Piston 1.4435, O-Ring NBR	1.4435	G1/2" male	82, 83	710	Piston 1.4435, O-Ring FKM	1.4435	G1/2" male	86, 87	725	
Fixation	Direct on sensor or housing										00
	With mounting bracket										31
Accessories	Housing stainless steel										06
	Damping elements and snubber see data sheet H72258										

Standard products (extra short lead time)

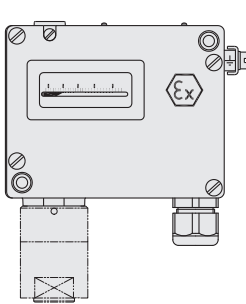
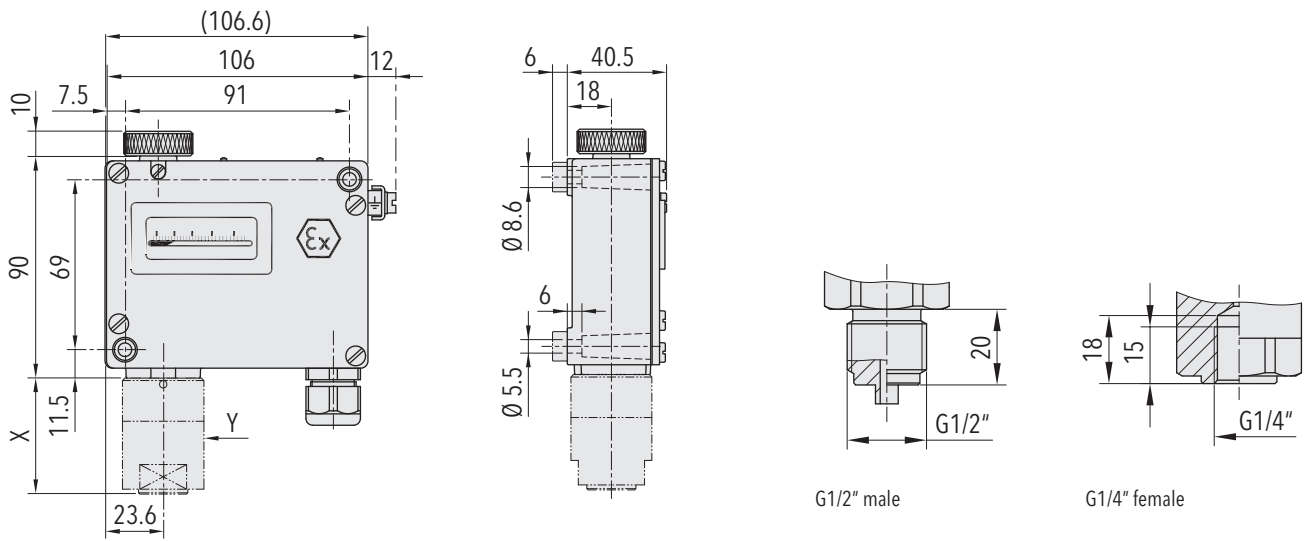
Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Switching differential [bar]	Diameter Y [mm]	Length X [mm]
EXPK10	944 9178 700 00 0000 0000 02	1 ... 10	100	0.4 ... 0.8 (fixed)	33	47
EXPK40	944 9181 704 00 0000 0000 02	4 ... 40	200	2 ... 5 (fixed)	27	42.5
EXPK100	944 9183 708 00 0000 0000 02	10 ... 100	200	4 ... 11 (fixed)	27	42.5
EXPK250	944 9185 712 00 0000 0000 02	25 ... 250	400	8 ... 26 (fixed)	27	42.5



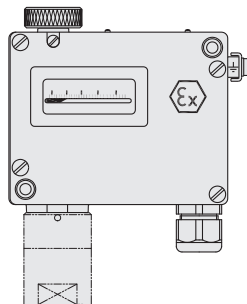
Specifications		
Accuracy	Repeatability	± 1.0 % FS typ.
	Scale accuracy typ.	± 2.0 % FS typ.
	Switching differential	See table
	Adjustment range switchpoint ¹⁾	10% ... 90% FS
Environmental conditions	Ambient temperature	-50°C ... +65°C
	Media temperature	NBR: -30°C ... +100°C FKM: -15°C ... +150°C
	Storage temperature	-50°C ... +65°C
	Protection	IP66 Accessory 06: IP66
	Humidity	Max. 95 % relative
	Vibration	5...25 Hz: ±1.6 mm 25...100 Hz: 4g
	Shock	50g/ 11ms
Mechanical Data	Sensor	See ordering information
	Housing	AlSi10Mg/ Epoxy coated Accessory 06: 1.4301 (AISI 304)
	Sealing	NBR / FKM
	Screwed cable gland	Polyamide
	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	Terminal screw
	Cable gland	M20x1.5/SW24 Cable-Ø 5.5...13 mm Approval: PTB 99 ATEX 3128 X
	Terminal screw	3 x 0.5...1.5 mm ²

¹⁾ Other adjustment ranges upon request

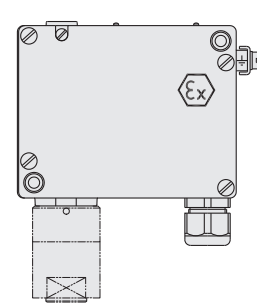
Dimensions



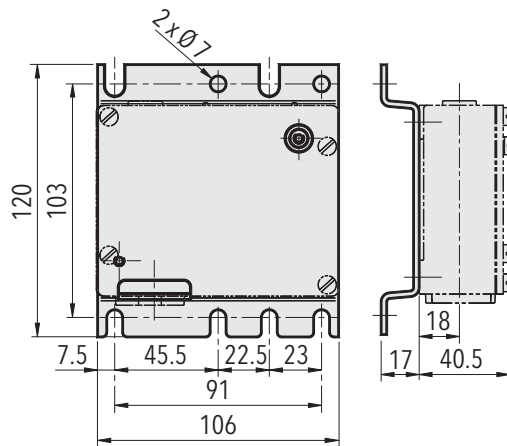
944



953



947



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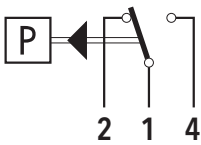
Switching differential typ. @ 25°C

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