ype series 6000

Art. no. 923-1295 Index: H

Series 8000 - mechanical pressure switches in diaphragm or piston design. The successors of the product lines XTM, XTK, X1T and 96200 have the additional advantage of very low and precise switching point settings.

Features

Modular construction, Versatile, High-quality materials, 100% assays, Long pressure spring

Adjustment ranges

0.6...600 bar

Applications

OEM applications, Mobile- and industrial-hydraulics and pneumatics, Test bed and apparatus engineering, Heavy industry

Technical Data

Wattad nauta	
wetted parts: standard: optional:	NBR, PTFE with bronze and stainless steel 1.4301; pistons: steel FKM, EPDM, CR instead of NBR
Repeatability:	±1% type, piston pressure switch ±2% type, diaphragm pressure switch
Switching rate:	max. 60/min piston pressure switch max. 30/min diaphragm pressure switch
Temperature range: Piston switch: Diaphragm switch:	-40°C+80°C (-40°F+176°F) -20°C+80°C (-4°F+176°F)
Protection class: standard: optional:	IP65 (plug connector), IP68 (cable) UL Inherent safety (x) II 1G Ex ia IIB T6 (DIN plug)-EXI Ex ia IIC T6 (cable version)-EXI (x) II 1GD Ex ia D 20 T100 UL, Type 4, for indoor and outdoor use



Housing: standard: optional:	Aluminium diecast 230 Stainless steel 1.4305/SS 304, Version - VA
Process connection:	CETOP flange ☐ 40x40 mm, see dimensions
Electrical connection:	see dimensions
Weight: CETOP flange version:	350 g (0.77 lbs)
Micro switch:	Change-over contact (SPDT)
Set screw:	Stainless steel 1.4305/SS304 (SW5), captive
Approvals:	GL, Ex ia, cULus, further approvals on request

Pressure ranges and proof pressures

	re range de	•	ent range increasing)		ent range decreasing)	Max. operat	ing pressure	Proof pressure		Max. hysteresis	
[bar]	[psi]	[bar]	ar] [psi] [bar] [psi]		[bar]	[psi]	[bar]	[psi]	range end		
	Diaphragm Diaphragm		Diaphragm								
1	Α	0.6 6.0	(8.787)	0.45.7	(5.882)	50	725	80 *	(1,200)	450/	
2	b	3.020.0	(45.0250)	2.017.0	(29246)	50	725	80 *	(1,200)	≤15%	
3	С	4.045.0	(60.0650)	3.041.0	(43600)	50	725	80 *	(1,200)		
	Piston		Piston		ton						
4	D	5.0180	(752,600)	3.0160	(432,320)	250	3600	600	(8,700)	14.50/	
5	Е	50.0350	(7505,000)	30.0300	(4304,300)	450	6500	600	(8,700)	≤15%	
6	F	80.0600	(1,2008,700)	55.0520	(8007,550)	600	8700	900	(15,000)		

^{*} Test pressure 200 bar (2,900 psi) upon request, results in less lifetime of the switch.

Praggiira

Compact Pressure Switches

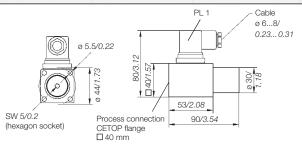
Type Series 8000

Dimensions (in mm / inch)

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90.



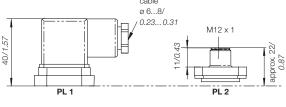
Switching- and connection diagram (pressureless)

		PL1	PL2
	С	1	1
_,	NC	2	2
•—	NO	3	4
чΗ	PE		3

Up to pressure stage 5 or E every pressure switch is supplied with two fastening screws M5×60 mm according to DIN 912 (10.9, galvanized).

The pressure switches of pressure stage 6 or F are supplied with four screws.

Electrical connection (PL1 = standard)

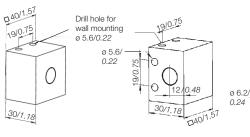


Cube plug DIN EN 175301-803 A (former DIN 43650)

Plug M12x1 mm, 4-pin

Process connections

Complete assembly with pressure switch only upon request



Connecting block I, straight version



Connecting block III, compatible with X1T, 96100/96111 (optional, only upon request)

ø 6.2/

0.24

Electrical ratings

	30								
Micro		Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Minimum capacitance	Intrinsic safety Ex ia
1	Silver contacts	250 V ~ 125 V ~	2.0 2.0	5.0 5.0	30 V= 250 V=	2.0 0.03	5.0 0.03	160 mA at 5 VDC	Umax=28 V
2	Gold contacts*	U	x I = max. 0,12	VA	≤ 300 mV= < 30 V=		≤ 400 mA < 4 mA	0 mA / 0 VDC	Imax=50 mA

^{*} e.g. suitable for PLC and/or Ex ia

Seal

	Seal
В	NBR
N	CR
E	EPDM
V	FKM

Options

	Housing
VA	1.4305

Micro switch

Approvals

EXI	Ex ia
GL	Germanischer Lloyd
UL	cULus approval

Ordering

Specifications are subject to changes without notice.

Example for order number

5	Туре	Process connection	Pressure range	Contact	_	connection		Seal	_	Options		Approvals
2	8	1	2	1	_	PL1	1+	В	_	VA	_	GL
,	Your order number											
	8	1			_]-[_		_	

Electrical

Accessories (To be listed separately in case of order. Blocks are slackly arranged.)

Connecting block no.	Order No.	Process connection	Designation	Material
1	906-0953	1/4" NPT female	straight	St passivated
1	906-0954	G 1/4" female	straight	St passivated
1	906-0946	1/4" NPT female	straight	1.4305
I	906-0947	G 1/4" female	straight	1.4305
II	906-0926	G 1/4" female	90° offset	1.4305
II	906-0927	1/4" NPT female	90° offset	1.4305
III	906-0919	G 1/4" female	straight	AlMg4,5Mn0,7