

Electromechanical pressure switches

OsiSense XM, type XML

Size 500 bar (7250 psi)

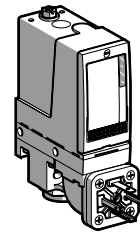
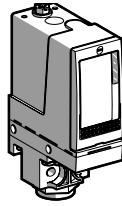
Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact

Fluid connection G 1/4 (female)

Pressure switches type XML A

With setting scale



2

Adjustable range of switching point (PH) (Rising pressure)	30...500 bar (435...7250 psi)	
Electrical connection	Terminals	DIN connector

References (1)

Fluids controlled (2) (5)	Hydraulic oils, up to + 160°C	XML A500D2S12	XML A500D2C11
	Fresh water, sea water, up to + 160°C	XML A500E2S12	XML A500E2C11
	Corrosive fluids, air, up to + 160°C	XML A500N2S12	XML A500N2C11
Weight (kg)	0.750	0.780	

Complementary characteristics not shown under general characteristics (page 2/77)

Natural differential (subtract from PH to give PB)	At low setting (3)	20 bar (290 psi)
	At high setting (4)	45 bar (652.5 psi)
Maximum permissible pressure	Per cycle	625 bar (9062.5 psi)
	Accidental	1125 bar (16,312.5 psi)
Destruction pressure		2250 bar (32,625 psi)
Mechanical life		3 x 10 ⁶ operating cycles
Cable entry for terminal models		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Connector type for connector models		DIN 43650 A, 4-pin male. For suitable female connector, see page 2/130
Pressure switch type		Piston

(1) For 1 entry tapped for n° 13 cable gland, replace S12 by S11 (example: XML A500D2S12 becomes XML A500D2S11).

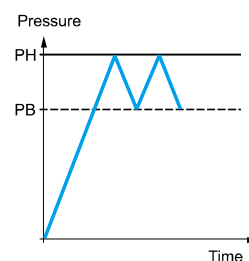
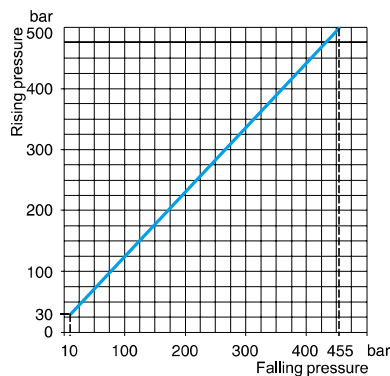
(2) Component materials of units in contact with the fluid, see pages 2/136 and 2/137.

(3) Deviation of the differential at low setting point for switches of the same size: ± 6 bar (± 87 psi).

(4) Deviation of the differential at high setting point for switches of the same size: ± 10 bar (± 145 psi).

(5) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Operating curves



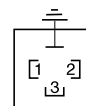
Connection

Terminal model



Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

— Adjustable value
--- Non adjustable value

Other versions

Pressure switches with alternative tapped cable entries: NPT etc. Please consult our Customer Care Centre.