

Electromechanical pressure switches

OsiSense XM, type XML

Size 20 bar (290 psi)

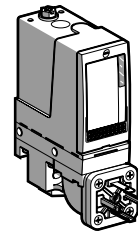
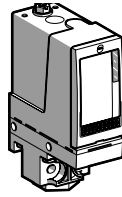
Fixed differential, for detection of a single threshold

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)	1...20 bar (14.5...290 psi)	
Electrical connection	Terminals	DIN connector

References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, sea water, air, up to +70°C	XML A020A2S12	XML A020A2C11
	Hydraulic oils, fresh water, sea water, air, up to 160°C	XML A020B2S12	XML A020B2C11
	Corrosive fluids, up to + 160°C	XML A020C2S12	XML A020C2C11
	Viscous products, up to + 160°C (G 1¼" fluid connection)	XML A020P2S12	XML A020P2C11
Weight (kg)		0.685	0.715

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

Natural differential (subtract from PH to give PB)	At low setting (3)	0.4 bar (5.8 psi)
	At high setting (3)	1 bar (14.5 psi)
Maximum permissible pressure	Per cycle	25 bar (362.5 psi)
	Accidental	45 bar (652.5 psi)
Destruction pressure		90 bar (1305 psi)
Mechanical life		5 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		Diaphragm

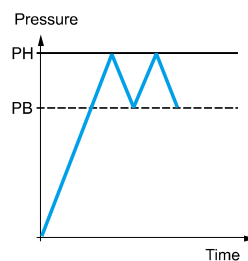
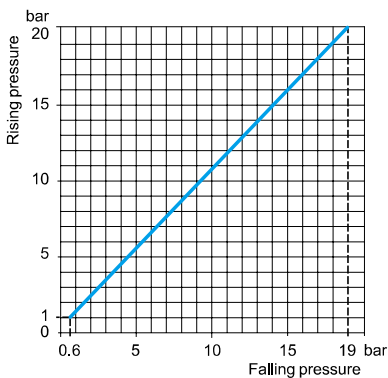
(1) For 1 entry tapped for n° 13 cable gland, replace **S12** by **S11** (example: **XML A020A2S12** becomes **XML A020A2S11**).

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

(3) Deviation of the differential at high setting point for switches of the same size: ± 0.1 bar (± 1.45 psi).

Deviation of the differential at low setting point: ± 0.2 bar (± 2.9 psi).

Operating curves



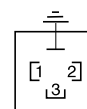
Connection

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.