

Electromechanical pressure switches

OsiSense XM, type XML

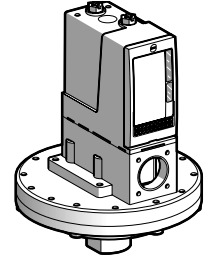
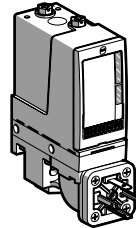
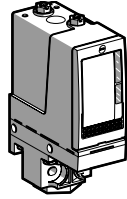
Size 20 bar (290 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact

Fluid connection G 1/4 (female)

Pressure switches type XML B	With setting scale	30 bar (435 psi) overpressure With setting scale
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Adjustable range of switching point (PH) (Rising pressure)	1.3...20 bar (18.9...290 psi)		
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Electrical connection	Terminals	DIN connector	Terminals
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References (1)

Fluids controlled (2)	Hydraulic oils, fresh water, sea water, air, up to +70°C	XML B020A2S12	XML B020A2C11	—
	Hydraulic oils, fresh water, air, up to +160°C	—	—	XML BS20A2S12
	Hydraulic oils, fresh water, air, up to +160°C	XML B020B2S12	XML B020B2C11	—
	Corrosive fluids, up to +160°C	XML B020C2S12	XML B020C2C11	—
	Viscous products, up to +160°C (G 1/4" fluid connection)	XML B020P2S12	XML B020P2C11	—

Weight (kg)	0.705	0.735	3.500
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Complementary characteristics not shown under general characteristics (page 2/77)

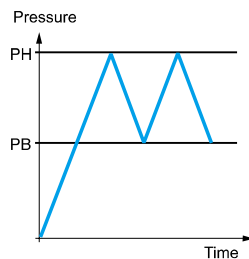
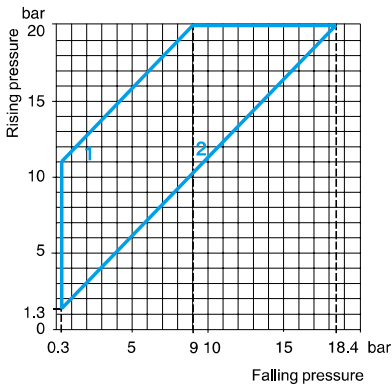
Possible differential (subtract from PH to give PB)	Min. at low setting (3)	1 bar (14.5 psi)	0.95 bar (13.78 psi)
	Min. at high setting (3)	1.6 bar (23.20 psi)	1.45 bar (21.03 psi)
	Max. at high setting	11 bar (159.5 psi)	12.6 bar (182.7 psi)
Maximum permissible pressure	Per cycle	25 bar (362.5 psi)	30 bar (435 psi)
	Accidental	45 bar (652.5 psi)	37.5 bar (543.75 psi)
Destruction pressure		90 bar (1305 psi)	67.5 bar (978.75 psi)
Mechanical life		5 x 10 ⁶ operating cycles	2 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 B020A2S12 becomes XML B020A2S11).

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

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.25 bar (± 3.63 psi).

Operating curves



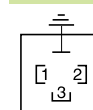
Connection

Terminal model



Connector model

Pressure switch connector pin view



- 1 → 11 and 13
- 2 → 12
- 3 → 14

- 1 Maximum differential
- 2 Minimum differential

— Adjustable value

Other versions

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