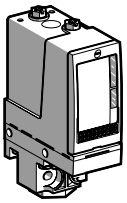
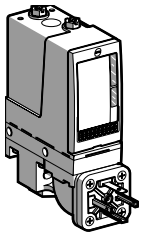
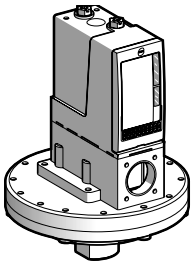
Electromechanical pressure switches

OsiSense XM, type XML

Size 10 bar (145 psi)
Adjustable differential, for regulation between 2 thresholds
Switches with 1 CO single-pole contact
Fluid connection G 1/4 (female)

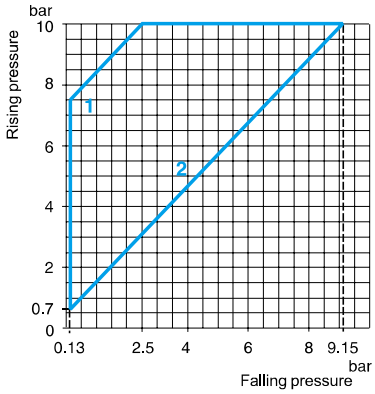
Pressure switches type XML B	With setting scale		30 bar (435 psi) overpressure With setting scale
			
Adjustable range of switching point (PH) (Rising pressure)	**0.7…10 bar (10.15…145 psi)**		
Electrical connection	Terminals	DIN connector	Terminals
References *(1)*			
Fluids controlled *(2)* — Hydraulic oils, fresh water, sea water, air, up to +70°C	**XML B010A2S12**	**XML B010A2C11**	–
Hydraulic oils, fresh water, air, up to + 160°C	–	–	**XML BS10A2S12**
Hydraulic oils, fresh water, air, up to + 160°C	**XML B010B2S12**	**XML B010B2C11**	–
Corrosive fluids, up to + 160°C	**XML B010C2S12**	**XML B010C2C11**	–
Viscous products, up to + 160°C (G 1¼" fluid connection)	**XML B010P2S12**	**XML B010P2C11**	–
Weight (kg)	0.705	0.735	3.500

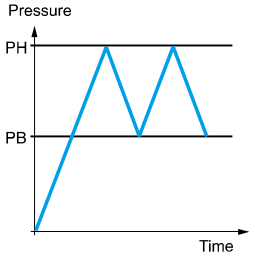
Complementary characteristics not shown under general characteristics (page 2/77)

Possible differential (subtract from PH to give PB)	Min. at low setting *(3)*	0.57 bar (8.26 psi)	0.45 bar (6.52 psi)
	Min. at high setting *(4)*	0.85 bar (12.32 psi)	0.85 bar (12.32 psi)
	Max. at high setting	7.5 bar (108.75 psi)	6.25 bar (90.62 psi)
Maximum permissible pressure	Per cycle	12.5 bar (181.25 psi)	30 bar (435 psi)
	Accidental	22.5 bar (326.25 psi)	37.5 bar (543.75 psi)
Destruction pressure		45 bar (652.5 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 B010A2S12** becomes **XML B010A2S11**).*
(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: ± 0.05 bar (± 0.72 psi).
(4) Deviation of the differential at high setting point for switches of the same size: - 0.1 bar, + 0.15 bar (- 1.45 psi, + 2.17 psi).

Operating curves





1 Maximum differential
2 Minimum differential

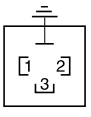
— Adjustable value

Connection

Terminal model

Connector model

Pressure switch connector pin view



1 → 11 and 13
2 → 12
3 → 14

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