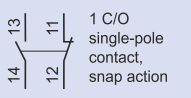


XM Sensors for pressure control

Electromechanical pressure and vacuum switches

XMLA and XMLB



Size (bar)	-1	5	1	2.5
Environmental characteristics	Ambient air temperature (°C) : -25...+70 Degree of protection (conforming to IEC 60529) : IP66			
Rated operational characteristics (conforming to EN/IEC 60947-5-1)	AC-15 ; B300 (Ue = 240V, Ie = 1,5A - Ue = 120V, Ie = 3A) / DC-13 ; R300 (Ue = 250V, Ie = 0,1A)			
Product certification	CE, UL, CSA, CCC, BV, LROS, EAC			
Fluid connection	G 1/4" (female) (other connections possible, please consult us)			
Electrical connection	Screw terminals (1), 3.5mm tapped entry for ISO M20 x 1.5 cable gland -			

Fluids controlled	Hydraulic oils, fresh water, air up to 70°C	Hydraulic oils, air up to 160°C	Hydraulic oils, fresh water, air up to 70°C
-------------------	---	---------------------------------	---

Type XMLA - fixed differential, single threshold detection

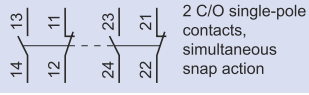
Setting range (bar) of upper limit (PH): pressure switches	- 0,28...- 1 (4)	-	0,03...1	0,15...2,5
Dimensions (mm) H x W x D	113 x 35 x 75	113 x 35 x 75	162 x 110 x 110	158 x 55 x 77,5
With setting scale	1 C/O single-pole, snap action contact			
Natural differential (bar)	at low setting		0,02	0,13
subtract from PH to give PB	at high setting		0,04	0,13

Type XMLB - adjustable differential, regulation between 2 thresholds

Setting range (bar) of upper limit (PH): pressure switches	- 0,14...- 1 (4)	- 0,5...5	0,05...1	0,3...2,5
With setting scale	1 C/O single-pole, snap action contact			
Possible differential (bar)	Min. at low setting	0,13 (3)	0,04	0,16
subtract from PH to give PB	Min. at high setting	0,13 (3)	0,06	0,21
	Max. at high setting	0,8 (3)	0,75	1,75

XMLC et XMLD

XMLC



Fluids controlled	Hydraulic oils, fresh water, air up to 70°C	Hydraulic oils, air up to 160°C	Hydraulic oils, fresh water, air up to 160°C
-------------------	---	---------------------------------	--

Type XMLC - adjustable differential, regulation between 2 thresholds

Setting range (bar) of upper limit (PH): pressure switches	0,14...- 1 (4)	0,05...1	0,3...2,5
Dimensions (mm) H x W x D	113 x 46 x 85	175 x 110 x 110	158 x 55 x 90
With setting scale	2 C/O single-pole, snap action contacts		
Possible differential (bar)	Min. at low setting	0,13 (4)	0,03
subtract from PH to give PB	Min. at high setting	0,14 (4)	0,04
	Max. at high setting	0,8 (4)	0,8

Type XMLD - fixed differential, dual stage, for detection at each threshold

Setting range	2nd stage switching point (PB2)	- 0,12...- 1 (4)	-
(bar)	1st stage switching point (PB1)	- 0,10...- 0,98	-
	Spread between 2 stages (PB2 - PB1)	- 0,02...- 0,88	-
Without setting scale	2 C/O single-pole, snap action contacts (1 per stage)		
Natural differential (bar)	at low setting	0,1 (2)	-
Subtract PH 1/2 to give PB 1/2	at high setting	0,1 (2)	-



	4	10	20	35	70	160	300	500
--	---	----	----	----	----	-----	-----	-----

conforming to IEC 947-5-1 Annexe A, En 60 947-5-1
tapped entry, replace the last number of the reference (2) by 1 (example: XMLA010A2S12 becomes XMLA010A2S11)

Hydraulic oils, fresh water, air up to 70°C	Hydraulic oils up to 160°C
---	----------------------------

0,4...4	0,6...10	1...20	1,5...35	5...70	10...160	20...300	30...500
113 x 35 x 75	113 x 35 x 75	113 x 35 x 75	113 x 35 x 75	113 x 35 x 75	113 x 35 x 75	113 x 35 x 75	113 x 35 x 75
XMLA004A2S12	XMLA010A2S12	XMLA020A2S12	XMLA035A2S12	XMLA070D2S12	XMLA160D2S12	XMLA300D2S12	XMLA500D2S12
0,35	0,5	0,4	1,25	3	5,5	16,5	20
0,35	0,5	1	1,25	7,5	18	35	45

0,25...4	0,7...10	1,3...20	3,5...35	7...70	10...160	22...300	30...500
XMLB004A2S12	XMLB010A2S12	XMLB020A2S12	XMLB035A2S12	XMLB070D2S12	XMLB160D2S12	XMLB300D2S12	XMLB500D2S12
0,02	0,57	1	1,7	4,7	9,3	19,4	23
0,25	0,85	1,6	2,55	8,8	20,8	37	52,6
2,4	7,5	11	20	50	100	200	300

- (1) For electrical connection DIN 43650A (IP65), replace the suffix "S12" in the reference by "C11". Example XMLB010A2S12 becomes **XMLB010A2C11**
- (2) For vacuum switch: natural differential to be added to PB to give PH.
- (3) For vacuum switch: possible differential to be added to PB to give PH.
- (4) Setting range (bar) of lower limit (PB): vacuum switch.



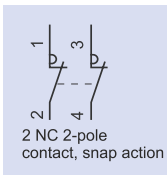
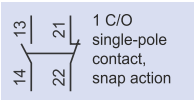
Hydraulic oils, fresh water, air up to 160°C	Hydraulic oils up to 160°C
--	----------------------------

0,3...4	0,7...10	1,3...20	3,5...35	7...70	12...160	22...300	30...500
113 x 46 x 85	113 x 46 x 85	113 x 46 x 85	113 x 46 x 85	113 x 46 x 85	113 x 46 x 85	113 x 46 x 85	113 x 46 x 85
XMLC004B2S12	XMLC010B2S12	XMLC020B2S12	XMLC035B2S12	XMLC070D2S12	XMLC160D2S12	XMLC300D2S12	XMLC500D2S12
0,15	0,45	0,7	1	4,5	9	16	19
0,17	0,7	1	1,5	8,9	21	35	52
2,5	8	11	22	60	110	240	340

0,40...4	1,2...10	2,14...20	4,4...35	9,4...70	16,5...160	36...300	41...500
0,19...3,79	0,52...9,32	0,9...18,76	1,9...32,5	6,6...67,2	10,5...154	25...289	25...484
0,21...2,18	0,68...5,8	1,24...9,55	2,5...20,4	2,8...46	6...83	11...189	16...244
XMLD004B1S12	XMLD010B1S12	XMLD020B1S12	XMLD035B1S12	XMLD070D1S12	XMLD160D1S12	XMLD300D1S12	XMLD500D1S12
0,15	0,45	0,7	1,5	5	8,8	17	21
0,19	0,6	1,3	2,6	9,5	20	42	65

XM Sensors for pressure control

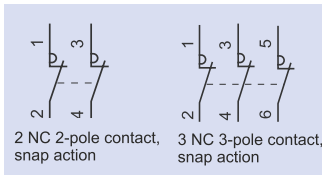
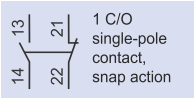
Electromechanical pressure switches XMX, XMA



Setting range of upper limit (PH) (bar)	1...6	1,3...12	3,5...25
Fluids controlled	Air, water (fresh water, sea water) from 0...+70°C		
Ambient air temperature	-25...+70°C		
Degree of protection (conforming to IEC 60529)	IP54		
Rated operational characteristics (conforming to EN/IEC 60947-5-1)	AC-15 ; B300 (Ue = 240 V, Ie = 1,5 A - Ue = 120 V, Ie = 3 A) / DC-13 ; R300 (Ue = 250 V, Ie = 0,1 A)		
Product certification	CE, UL, CSA, CCC, EAC		
Dimensions (mm) H x W x D	106 x 57 x 98		126 x 57 x 98
Fluid connection	1/4" BSP female		
Electrical connection	Screw terminals, 2 tapped entries for n° 13 (DIN Pg 13.5) cable gland		

Type XMX-with internal setting screw

Without setting scale, screw terminal connections				
1 C/O single-pole, snap action contact		XMXA06L2135	XMXA12L2135	XMXA25L2135
Possible differential (bar)	Min. at low setting	0,8	1	3,4
subtract from PH to give PB	Min. at high setting	1,2	1,7	4,5
	Max. at high setting	4,2	8,4	20



Size (bar)	6	12	25
Setting range of upper limit (PH) (bar)	1...6	1,3...12	3,5...25
Fluids controlled	Air, water (fresh water, sea water) from 0...+70°C		
Ambient air temperature	For fonctionnement : -25...+70°C. For stockage : -40...+70°C		
Decompression valve / ONOff knob	without	with	without
Fluid connection	G 1/4 (BSP female)	4xG 1/4 (BSP female)	G 1/4 (BSP female)
Electrical connection	Screw terminals, 2 tapped entries for n° 13 (DIN Pg 13.5) cable gland		
Degree of protection	IP 54	IP 54	IP 54
Product certification	CE, EAC		
Rated insulation voltage	Ui = 500 V		
Electrical Power	1,5 kW	400 V AC 3-phase : 1 000 000 operating cycles	
durability	2,2 kW	230 VAC 3-phase : 600 000 operating cycles	
	3 kW	400 V AC 3-phase : 700 000 operating cycles	
Dimensions (mm) H x W x D	106 x 57 x 97,5	138 x 57 x 97,5	106 x 57 x 97,5
Type	2 NC 2-pole, snap action contact	XMPA06B2131	XMPA12B2131
of contacts	3 NC 3-pole, snap action contact	XMPA06C2131	XMPA12C2131
Possible differential (bar)	Min. at low setting	0,8	1
subtract from PH	Min. at high setting	1,2	1,7
to give PB	Max. at high setting	4,2	8,4

Electromechanical pressure switches for power circuits, adjustable differential for regulation between 2 thresholds



Setting range of upper limit (PH) (bar)	1...6	1,3...12	3,5...25
Fluids controlled	Air, water (fresh water, sea water) from 0...+70°C		
Ambient air temperature	-25...+70°C		
Degree of protection (conforming to IEC 60529)	IP54		
Rated operational characteristics (conforming to EN/IEC 60947-5-1)	AC-15 ; B300 (Ue = 240 V, Ie = 1,5 A - Ue = 120 V, Ie = 3 A) / DC-13 ; R300 (Ue = 250 V, Ie = 0,1 A)		
Product certification	CE, UL, CSA, CCC, EAC		
Dimensions (mm) H x W x D	113 x 57 x 98		133 x 57 x 98
Fluid connection	1/4" BSP female		
Electrical connection	Screw terminals, tapped entry for n° 13 (DIN Pg 13.5) cable gland		

Type XMA with external setting screw (transparent cover)

Without setting scale, screw terminal connections				
1 C/O single-pole, snap action contact		XMAV06L2135	XMAV12L2135	XMAV25L2135
Possible differential (bar)	Min. at low setting	0,8	1	3,4
subtract from PH to give PB	Min. at high setting	1,2	1,7	4,5
	Max. at high setting	4,2	8,4	20