Electromechanical sensors for pressure control OsiSense XM

Catalogue



Simply easy!™



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Electromechanical pressure and vacuum switches OsiSense XM

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Selection guide

Electromechanical sensors for pressure control OsiSense XM

Applications	Type of installation	Control circuits			
	Fluids controlled	Air, water, hydraulic oils,	corrosive fluids, viscous pro	oducts	
	Type of operation	Detection of a single threshold (fixed differential)	thresholds (adjustable differential)		
Fluid characteristics		Air, fresh water, corrosive fluids, viscous products, up to 160°C Sea water, up to 30 °C, depending on model			
Sizes		- 1 bar500 bar (- 14.5 ps	i7250 psi)		
Dimensions of case (mm)	Width x height x depth	35 x 68 x 75		46 x 68 x 85	
Type of contacts		1 CO single-pole, snap act	ion	2 CO single-pole, simultaneous, snap action	
Degree of protection		IP 66: switches with termin IP 65: switches with conne		IP 66: switches with terminal connections	
Electrical connection		Connector : EN 175301-803-A (ex-DIN 43650A), 4-pin male. Screw terminals: 1 tapped entry M20 x 1.5 mm for ISO cable gland or 1 tapped entry 1/2"-14 NPT for cable gland, depending on model.			
Fluid connection		G 1/4 (female) 1/4" - 18 NPTF (female) G 1¼" (female) for viscous	products		
Type reference		XMLA	XMLB	XMLC	
Pages		18 to 67			
Other versions		Electromechanical pressure	e and vacuum switches with alte	ernative tapped cable entries and/	

Control circuits Air, water, hydraulic oils, corrosive fluids, viscous products Air, hydraulic oils, corrosive fluids Dual stage switches Detection at each threshold (fixed differential)





Air, fresh water, corrosive fluids, viscous products, up to 160°C Sea water, up to 30 °C, depending on model	Air, oils and other non corrosive fluids (- 73+ 125°C)	Oils and other fluids (- 25+ 120 °C) Only oils, including synthetic oils, (- 30+ 125 °C), depending on model	
- 1 bar500 bar (- 14.5 psi7250 psi)	0.7 bar131 bar (10.15 psi1900 psi)	69 bar340 bar (1000 psi4930 psi)	
45 x 68 x 85	88 x 88 x 68		
2 CO single-pole, staggered, snap action	1 CO or 2 CO single-pole, snap action		
IIP 66: switches with terminal connections	IP 65		
Connector : EN 175301-803-A (ex-DIN 43650A), 4-pin male. Screw terminals: 1 tapped entry M20 x 1.5 mm for ISO cable gland or 1 tapped entry 1/2"-14 NPT for cable gland, depending on model.	1 tapped entry for n° 13 cable gland, depending on model		
G 1/4 (female) 1/4" - 18 NPTF (female) G 1¼" (female) for viscous products	G 1/4 (femelle)	G 3/8 (female)	
XMLD	ACW	ADW	
18 to 67	76 and 77	78 and 79	

Electromechanical pressure and vacuum switches with alternative tapped cable entries and/ or fluid entries: NPT etc. Please consult our Customer Care Centre.



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Regulation between 2 thresholds (adjustable differential)



G 3/8 (female)
ADW

Selection guide (continued)

Electromechanical sensors for pressure control OsiSense XM

Type of installation Applications Control circuits Fluids controlled Air, water Type of operation Regulation between 2 thresholds (adjustable differential) Fluid characteristics Air, fresh water, sea water (0...+ 70°C) Sizes 6 bar, 12 bar and 25 bar (87 psi, 174 psi and 362.5 psi) **Dimensions of case (mm)** Width x height x depth 57 x 78 x 97.5 External screws Setting of switching points Internal screws Type of contacts 1 CO single-pole, snap action Degree of protection IP 54 **Electrical connection** Screw terminals: 2 entries tapped for n° 13 cable gland,
one fitted with n° 13 cable gland,
one fitted with blanking plug. Fluid connection G 1/4 or 4 x G 1/4 (female), depending on model XMA Type reference XMX 85 84 Pages Electromechanical pressure switches with alternative tapped cable entries and/or fluid entries: ISO, NPT, etc. Please consult our Customer Care Centre. Other versions



	1300,1300NL	11022, 1102
FTG●, FTG●NE	FSG●, FSG●NE	FYG22, FYG2
G 1/4 or R 1/4 (female or male)		
 2 cable entries with grommet 2 cable entries with n° 13 cab 		
Screw terminals:		
IP 20/IP 65		
2 NC snap action		
Internal screws		
73 x 73 x 102	72 x 77 x 106	72 x 73 x 102
4.6 bar (66.7 psi)		7 bar (101.5 psi)

(E) Telemecanique



Telemecanique

Electromechanical pressure and vacuum switches

OsiSense XM

Function

The function of pressure and vacuum switches is the control or regulation of pressure or vacuum levels in hydraulic or pneumatic systems. They transform the pressure change into a digital electrical signal when the preset switching points are reached.

Switches for power circuits

Switches with power electrical contacts, either 2-pole or 3-pole, designed for direct switching of single-phase or 3-phase motors (pumps, compressors, etc.).

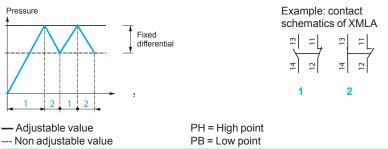
Switches for control circuits

Switches with standard electrical contacts, designed for control of contactors, relays, power valves, PLC inputs, etc.

Pressure switch operating principle

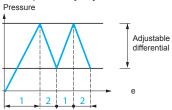
Detection of a single threshold

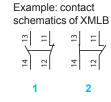
The switches for detection of a single threshold (fixed differential) have a single adjustable setting point (PH). The differential between the high and low points (PH - PB) depends upon the natural characteristics of the switch. It is not adjustable.



Regulation between 2 thresholds

The switches for regulation between 2 thresholds (adjustable differential) have both a high point setting (PH) and a low point setting (PB). Both of these points can be independently adjusted.



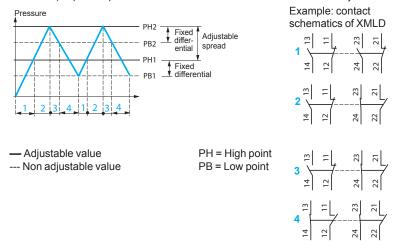


- Adjustable value

PH = High point PB = Low point

Detection of 2 thresholds

The dual stage switches, for detection at each threshold, have an adjustable high point setting for each stage (PH1 and PH2). Both of these points can be independently adjusted. For both stages, the differential between the high point and the low point (PH1 - PB1 and PH2 - PB2) depends upon the natural characteristics of the switch. It is not adjustable.



General (continued)

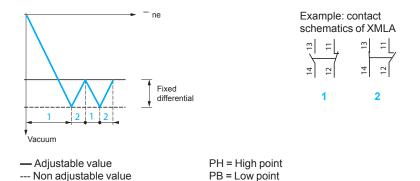
Electromechanical pressure and vacuum switches

OsiSense XM

Vacuum switch operating principle

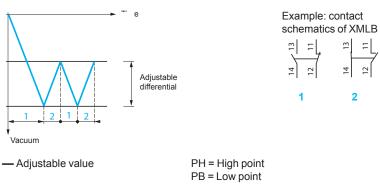
Detection of a single threshold

The switches for detection of a single threshold (fixed differential) have a single adjustable setting point (PH). The differential between the high and low points (PH - PB) depends upon the natural characteristics of the switch. It is not adjustable.



Regulation between 2 thresholds

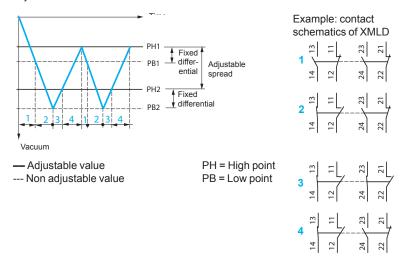
The switches for regulation between 2 thresholds (adjustable differential) have both a high point setting (PH) and a low point setting (PB). Both of these points can be independently adjusted.



Detection of 2 thresholds

The dual stage switches, for detection at each threshold, have an adjustable high point setting for each stage (PH1 and PH2). Both of these points can be independently adjusted.

For both stages, the differential between the high point and the low point (PH1 - PB1 and PH2 - PB2) depends upon the natural characteristics of the switch. It is not adjustable.





Electromechanical pressure and vacuum switches

OsiSense XM

Terminology

Operating range

The difference between the minimum low point (PB) and the maximum high point (PH) setting values.

Size

Pressure switches and vacuum-pressure switches (vacu-pressure switches) Maximum value of the operating range.

Vacuum switches

Minimum value of the operating range.

Switching point on rising pressure (PH)

Pressure switches The upper pressure setting at which the pressure switch will actuate the contacts on rising pressure.

Vacuum switches

The lower vacuum setting at which the vacuum switch will reset the contacts on rising pressure.

Switching point on falling pressure (PB)

The pressure at which the switch output changes state on falling pressure.

Switches with fixed differential

The lower point (PB) is not adjustable and is entirely dependent on the high point setting (PH) and the natural differential of the switch.

Switches with adjustable differential

The adjustable differential enables the independent setting of the lower point (PB).

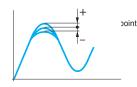
Differential

The difference between the switching point on rising pressure (PH) and the switching point on falling pressure (PB).

Spread

For dual stage switches, the spread indicates the difference between the 2 switching points on rising pressure (PH2 and PH1) and, for vacuum switches, the difference between the 2 switching points on falling pressure (PB2 and PB1).

Accuracy (switches with setting scale)

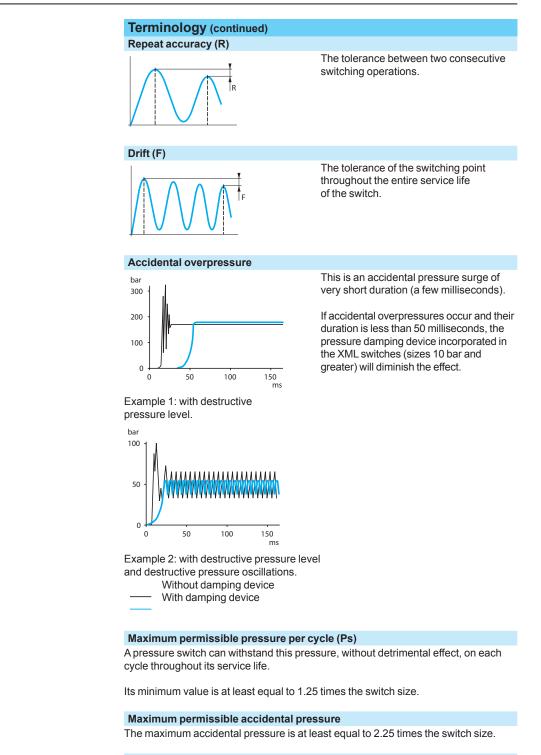


The tolerance between the point at which the switch actuates its contacts and the value indicated on the setting scale. Where very high setting accuracy is required (initial installation of the product), it is recommended to use separate measuring equipment (pressure gauge, etc.).

General (continued)

Electromechanical pressure and vacuum switches

OsiSense XM



Destruction pressure

The maximum guaranteed pressure that the switch will withstand before its destruction, i.e. bursting, rupturing, component failure, etc.

Its value is at least equal to 4.5 times the switch size.

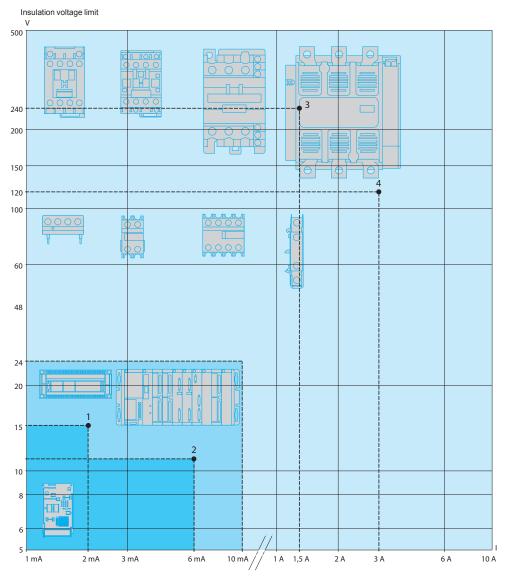
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Electromechanical pressure and vacuum switches OsiSense XM

Application range of pressure and vacuum switches XML, XMA and XMX, for control circuits

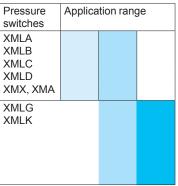
On standard loads

Continuous duty, frequent switching.





- 2 Standard PLC input, type 2
 3 Switching capacity conforming to IEC 60947-5-1, utilisation category AC-15, DC-13 B300 240 V 1.5 A R300 250 V 0.1 A
 4 Switching capacity conforming to IEC 60047.5 1
- to IEC 60947-5-1, utilisation category AC-15, DC-13 B300 120 V 3 A R300 125 V 0.22 A PLC: Programmable Logic Controller



On small loads The use of electromechanical pressure and vacuum switches with programmable logic controllers is becoming more predominant.

On small loads, the reliability of the switches maintain a failure rate of less than 1 for 100 million operating cycles.

Electromechanical pressure and vacuum switches

OsiSense XM

Selection of switch size

After establishing the type of switch required for the application (single threshold detection or regulation between 2 thresholds), the selection of its size will depend on the following criteria:

- □ the differential: difference between the high point (PH) and the low point (PB),
- □ the maximum pressure permissible per cycle,
- □ repeat accuracy, precision and minimum drift.

Examples of a fixed differential pressure switch selection, for detection of a single threshold

Main criterion: minimum differential

Example: for a selected high point (PH) of 7 bar





XMLA010

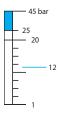
XMLA020 •••• Differential = 1 bar 35 bar 1.5



Differential = 0.5 bar Select an XMLA010 •••• (the lowest size)

Main criterion: tolerance to overpressures

Example: for a selected high point (PH) of 12 bar



- 80 bar 45 35 12 1.5

XMLA020 ••••• Permissible accidental overpressure = 45 bar Select an XMLA035 •••• (the highest size)

XMLA035 ••••• Permissible accidental overpressure = 80 bar

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Main criterion: repeat accuracy, precision and minimum drift Example: for a selected high point (PH) of 18 bar





As a general rule, working at the upper or lower limits of the operating range should be avoided.

XMLA020

XMLA035 ••••• Adjustable from 1 to 20 bar Adjustable from 1.5 to 35 bar Select an XMLA035 ••••

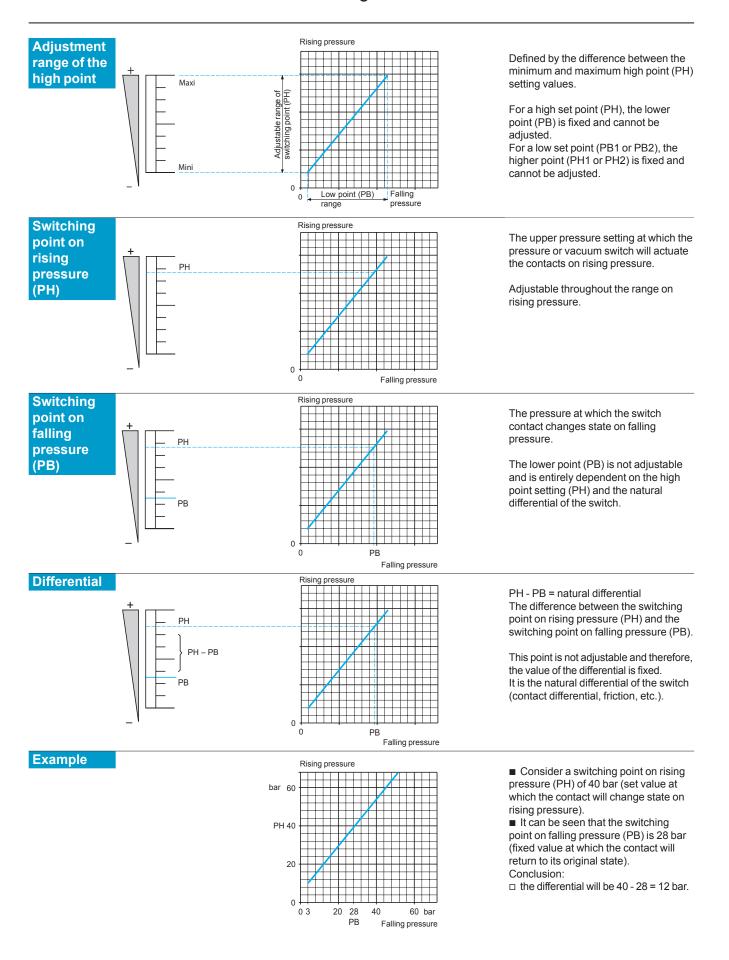
Units of pressure conversion table							
	psi	kg/cm ²	bar	atm	mm Hg (Torr)	mm H ₂ O	Ра
1 psi =	1	0.07031	0.06895	0.06805	51.71	703.7	6895
1 kg/cm ² =	14.22	1	0.98066	0.96784	735.55	10 000	98 066
1 bar =	14.50	1.0197	1	0.98695	750.06	10 197	105
1 atm =	14.70	1.0333	1.0132	1	760.0	10 333	101 325
1 mm Hg = (Torr)	0.01934	1.360 x 10 ⁻³	1.333 x 10 ⁻³	1.316 x 10 ⁻³	1	13.59	133.3
1 mm H ₂ O =	1.421 x 10 ⁻³	10-4	\sim 10 ⁻⁴	\sim 10 ⁻⁴	0.07361	1	\sim 9.80
1 Pa =	1.45 x 10 ⁻⁴	1.0197 x 10⁻⁵	10-5	9.8695 x 10 ⁻⁶	7.5 x 10 ⁻³	0.10197	1
Example: 1 bar = 14 50 psi = 10 ⁵ Pa							

Example: 1 bar = $14.50 \text{ psi} = 10^{\circ} \text{ Pa}$



Electromechanical pressure and vacuum switches

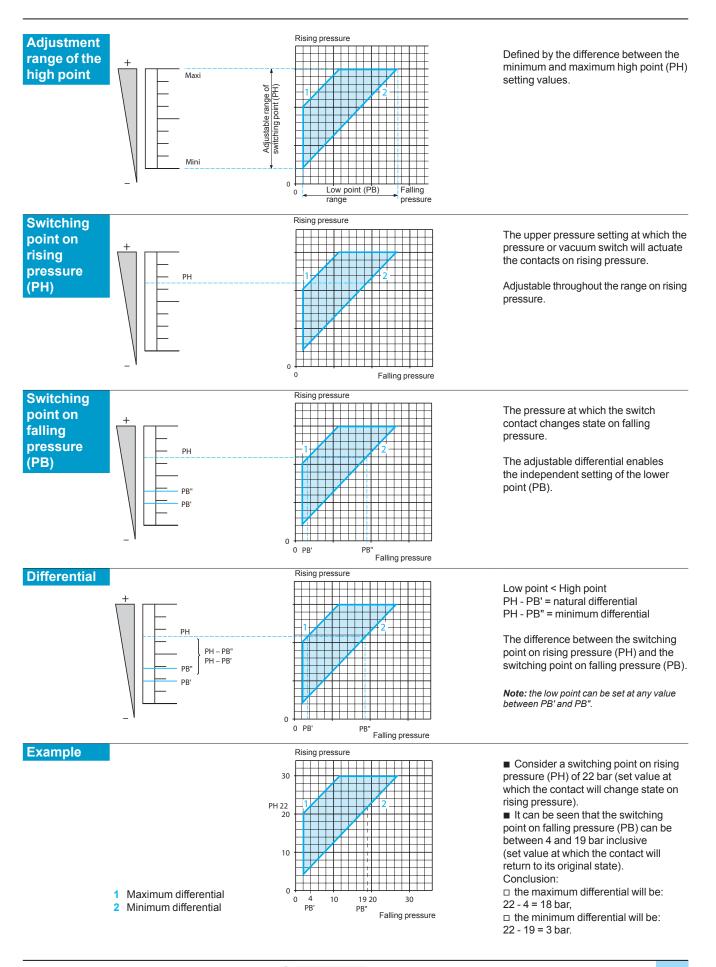
Fixed differential switches, for detection of a single threshold



Operating curves

Electromechanical pressure and vacuum switches

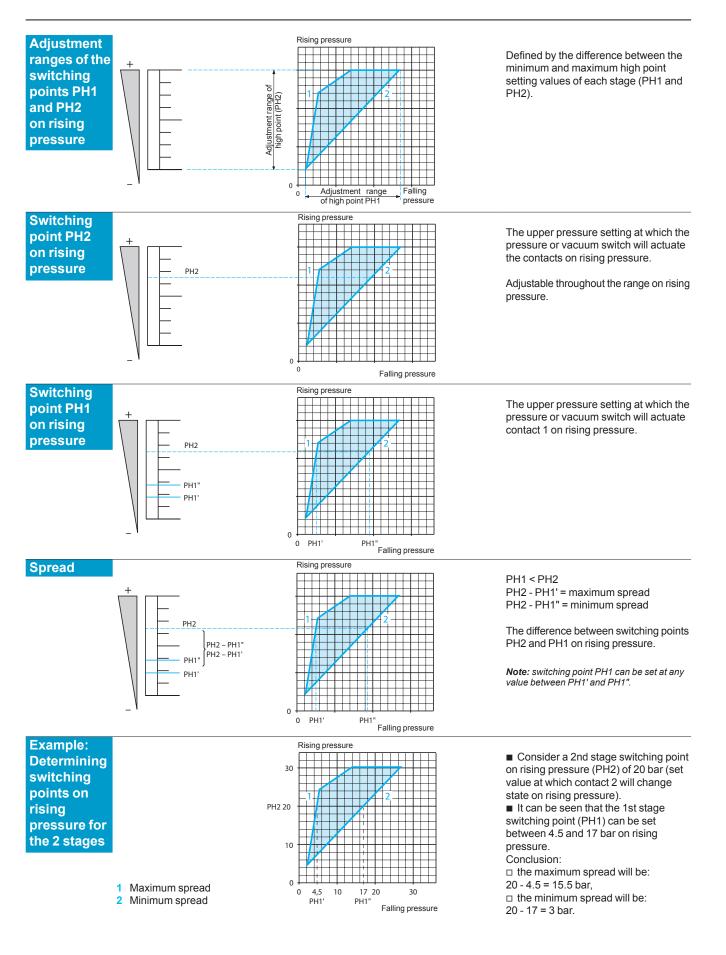
Adjustable differential switches, for regulation between 2 thresholds



Operating curves (switching points on rising pressure)

Electromechanical pressure and vacuum switches

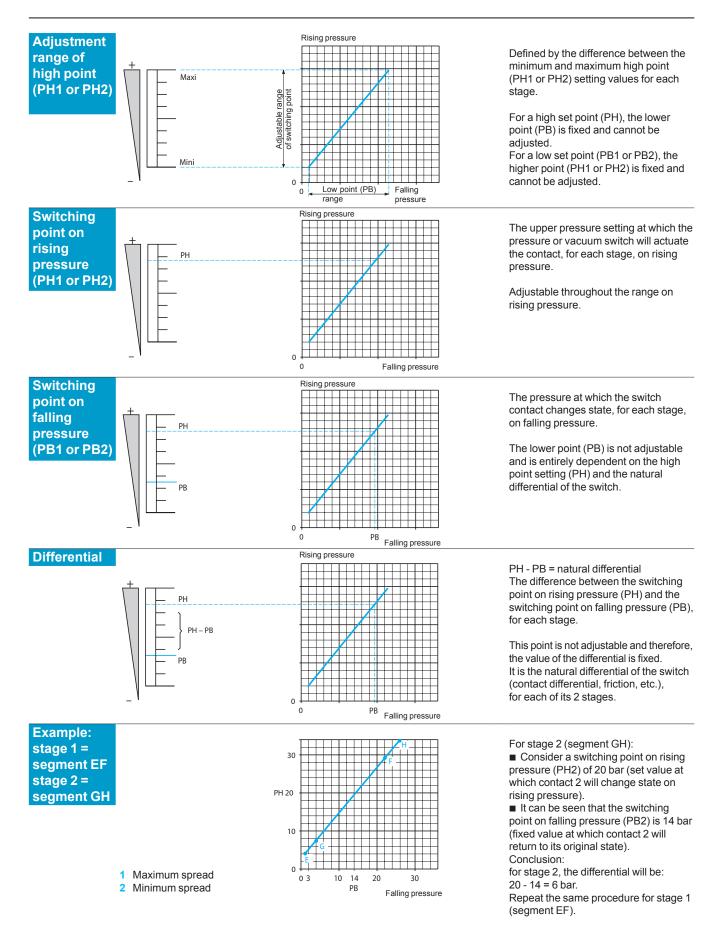
Dual stage, fixed differential switches, for detection at each threshold



Operating curves (switching points on falling pressure)

Electromechanical pressure and vacuum switches

Dual stage, fixed differential switches, for detection at each threshold





Presentation

Electromechanical pressure and vacuum switches

OsiSense XM OsiSense XML for control circuits

Presentation

OsiSense **XML** pressure and vacuum switches are designed for use in control circuits.

They are used to control the pressure of hydraulic oils, fresh water, sea water, air, steam, corrosive fluids or viscous products, up to 500 bar.

OsiSense **XMLA** pressure and vacuum switches have a fixed differential and are used for detection of a single threshold. They incorporate 1 CO single-pole contact. OsiSense **XMLB** pressure and vacuum switches have an adjustable differential and are used for regulation between 2 thresholds. They incorporate 1 CO single-pole contact.

OsiSense **XMLC** pressure and vacuum switches have an adjustable differential and are used for regulation between 2 thresholds. They incorporate 2 CO single-pole contacts.

OsiSense **XMLD** pressure and vacuum switches are dual stage switches, each stage with a fixed differential, and are used for detection at each threshold. They incorporate 2 CO single-pole contacts (one per stage).

Setting

When setting OsiSense XML pressure and vacuum switches, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

OsiSense XMLA pressure and vacuum switches with fixed differential

Switching point on rising pressure The switching point on rising pressure (PH) is set by adjusting the red screw 1.

The switching point of haing pressure (111) is set by adjusting the rec

Switching point on falling pressure

The switching point on falling pressure (PB) is not adjustable. The difference between the tripping and resetting points of the contact is the natural differential of the switch (contact differential, friction, etc.).

OsiSense XMLB and XMLC pressure and vacuum switches with adjustable differential

Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting the red screw 1.

Switching point on falling pressure

The switching point on falling pressure (PB) is set by adjusting the green screw 2.

OsiSense XMLD dual stage pressure and vacuum switches with fixed differential for each threshold

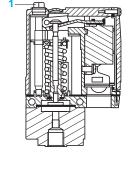
Switching point on rising pressure of stage 1 and stage 2

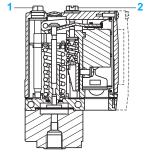
The first stage switching point on rising pressure (PH1) is set by adjusting the red screw 1.

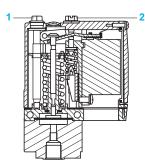
The second stage switching point on rising pressure (PH2) is set by adjusting the blue screw 2.

Switching point on falling pressure

The switching points on falling pressure (PB1 and PB2) are not adjustable. The difference between the tripping and resetting points of each contact is the natural differential of the switch (contact differential, friction, etc.).







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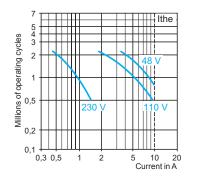
Characteristics

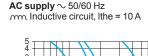
Electromechanical pressure and vacuum switches

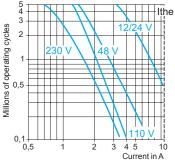
OsiSense XM OsiSense XML for control circuits

Environment characteristics		
Conformity to standards		C€, IEC/EN 60947-5-1, UL 508, CSA C22-2 no. 14
Product certifications		All products: UL, CSA, EAC
		XMLA and XMLB: CCC, BV, LROS
Protective treatment		Standard version "TC". Special version "TH"
Ambient air temperature	°C	For operation: -25+70. For storage: -40+70
Fluids or products controlled		Hydraulic oils, air, fresh water, sea water
· · · · · · · · · · · · · · · · · · ·		Steam, corrosive fluids, viscous products, depending on model
Materials		Case: zinc alloy
		Component materials in contact with fluid: see pages 72 and 73
Operating position		All positions
Vibration resistance		4 gn (30500 Hz) conforming to IEC 60068-2-6 except XMLoL350000, XML00100000 and XMLBM030000: 2 gn
Shock resistance		50 gn conforming to IEC 60068-2-27 except XMLeL35eeeee, XMLe001eeeee and XMLBM03eeeee: 30 gn
Electric shock protection		Class I conforming to IEC 1140, IEC 536 and NF C 20-030
Degree of protection		Screw terminal models: IP 66 conforming to IEC/EN 60529 Connector models: IP 65 conforming to IEC/EN 60529
Operating rate	Op. cycles/	Piston version switches: ≤ 60 (for temperatures > 0 °C) Diaphragm version switches: ≤ 120 (for temperatures > 0 °C)
	min	Diaphragin version switches. < 120 (for temperatures > 0 °C)
Repeat accuracy		<2%
Fluid connection		G 1/4 (BSP female) conforming to NF E 03-005, ISO 228 or 1/4"-18 NPTF
		For sizes ≥ 300 bar, use the gasket supplied with the product. This gasket is also available as a separate part, reference XMLZL010 .
Electrical connection		Screw terminal models: ISO M20 x 1.5 or 1/2" NPT tapped entry For an entry tapped for no.13 (DIN Pg 13.5) cable gland, replace the last number of the reference with 1 (for example, XMLA010A2S12 becomes XMLA010A2S11) Connector models: EN 175301-803-A (ex-DIN 43650) connector
Contact block characteristics		
Rated operational characteristics		\sim 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), conforming to IEC 60947-5-1 Appendix A, EN 60947-5-1
Rated insulation voltage		Ui = 500 V conforming to IEC/EN 60947-1 Ui = 300 V conforming to UL 508, CSA C22-2 no. 14
Rated impulse withstand voltage		U imp = 6 kV conforming to IEC/EN 60947-1
Type of contacts		Silver tipped contacts XMLA and XMLB: 1 CO single-pole contact (4 terminals), snap action XMLC: 2 CO single-pole contacts (8 terminals), simultaneous, snap action XMLD: 2 CO single-pole contacts (8 terminals), staggered, snap action
Resistance across terminals	mΩ	< 25 conforming to NF C 93-050 method A or IEC 255-7 category 3
Terminal referencing		Conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Connection		Screw clamp terminals. Minimum clamping capacity: 1 x 0.5 mm²/AWG 20 Maximum clamping capacity: 2 x 2.5 mm²/AWG 14
Electrical durability Conforming to IEC/EN 60947-5-1 Appendix C Utilisation categories AC-15 and DC-13		d XMLBXMLC and XMLD $Jy \sim 50/60$ HzAC supply $\sim 50/60$ Hzictive circuit, Ithe = 10 AInductive circuit, Ithe = 10 A

Operating rate: 3600 operating cycles/hour Load factor: 0.5







DC supply Power broken in W

for 1 mil	lion op	erating cy	cles	
Voltage	V	24	48	120
m	W	31	29	26

DC supply ---Power broken in W for 5 million operating cycles

Voltage	V	24	48	120
m	W	10	7	4

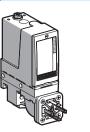


Electromechanical vacuum switches OsiSense XML

Size - 1 bar (- 14.5 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

OsiSense XMLA vacuum switches

With setting scale



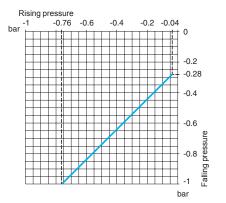


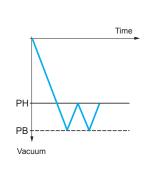
Adjustable range of switching point (PB) (Falling pressure)		- 0.28 1 bar (- 4.06 14.5 psi)				
Electrical connection		DIN connector To	Terminals			
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)		
References (1)			,			
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLAM01V2C11	XMLAM01V2S12	XMLAM01V2S13		
	Hydraulic oils, fresh water, air, corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLAM01T2C11	XMLAM01T2S12	-		
Weight (kg)		0.685	0.715	0.715		
Complementary c	haracteristics not shown	under general chara	cteristics (page 17)			
Natural differential	At low setting (3)	0.24 bar (3.48 psi)				
(add to PB to give PH)	At high setting (3)	0.24 bar (3.48 psi)				
Maximum permissible	Per cycle	5 bar (72.5 psi)				
pressure	Accidental	9 bar (130.5 psi)				
Destruction pressure		18 bar (261 psi)				
Mechanical life		3 x 10 ⁶ operating cycles				
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm		
Vacuum switch type		Diaphragm				
		becomes XMLAM01V2S11).	cable gland, replace S12 with S1			

(2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.05 bar (± 0.72 psi).

Operating curves





- Adjustable value

Connection Terminal model

Connector model

Vacuum switch connector pin view

÷	

 $\begin{array}{l} 1 \rightarrow 11 \text{ and } 13 \\ 2 \rightarrow 12 \\ 3 \rightarrow 14 \end{array}$

Other versions

--- Non adjustable value For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: page 68

Dimensions: pages 69 to 71

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OsiSense XMLB vacuum switches

Electromechanical vacuum switches

OsiSense XM, OsiSense XML Size - 1 bar (- 14.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

			00.	
Adjustable range of switch (Falling pressure)	ning point (PB)	- 0.14 1 bar (- 2.03 14.5 p	osi)	
Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLBM02V2C11	XMLBM02V2S12	XMLBM02V2S13
	Hydraulic oils, fresh water, air, corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLBM02T2C11	XMLBM02T2S12	XMLBM02T2S13
Weight (kg)		1.015	1.030	1.030
Complementary c	haracteristics not shown	under general chara	cteristics (page 17)	
Possible differential	Min. at low setting (3)	0.13 bar (1.88 psi)		
(add to PB	Min. at high setting (3)	0.13 bar (1.88 psi)		
to give PH)	Max. at high setting	0.8 bar (11.6 psi)		
Maximum permissible	Per cycle	5 bar (72.5 psi)		
pressure	Accidental	9 bar (130.5 psi)		
Destruction pressure		18 bar (261 psi)		
Mechanical life		3 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Vacuum switch type		Diaphragm		
		(1) For 1 entry tapped for no. 13	cable gland, replace S12 with S11	1 (for example, XMLBM02V2S12

With setting scale

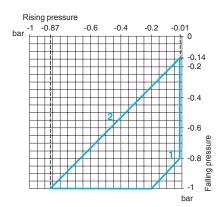
(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLBM02V2S12 becomes XMLBM02V2S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low and high setting points for switches of the same size:

± 0.02 bar (± 0.29 psi).

Operating curves



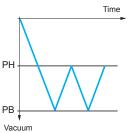
1 Maximum differential

2 Minimum differential

Other versions

- Adjustable value

For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.



Connection

Connector model Vacuum switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$



References, characteristics (continued)

Electromechanical vacuum switches

OsiSense XML Size - 1 bar (- 14.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

OsiSense XMLC vacuum switches	with setting scale	

10000

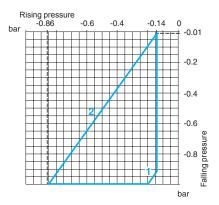
(Falling pressure) Electrical connection		- 0.14 1 bar (- 2.03 14.5 psi)	
		Terminals G 1/4 (female)	
			References (1)
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLCM02V2S12	
	Hydraulic oils, fresh water, air, corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLCM02T2S12	
Weight (kg)		1.015	
Complementary c	haracteristics not shown	under general characteristics (page 17)	
Possible differential	Min. at low setting (3)	0.13 bar (1.89 psi)	
(add to PB	Min. at high setting (3)	0.14 bar (2.03 psi)	
to give PH)	Max. at high setting	0.8 bar (11.6 psi)	
Maximum permissible	Per cycle	5 bar (72.5 psi)	
pressure	Accidental	9 bar (130.5 psi)	
Destruction pressure Mechanical life Cable entry for terminal models Vacuum switch type		18 bar (261 psi)	
		3 x 10 ⁶ operating cycles	
		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	
		Diaphragm	
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLCM02V2S1)	

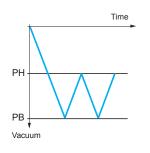
(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLCM02V2S12 becomes XMLCM02V2S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.02 bar (± 0.29 psi).

Operating curves







Connection

1 Maximum differential

2 Minimum differential

Other versions

Adjustable value

For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

> Telemecanique Sensors

Electromechanical vacuum switches

OsiSense XML

Size - 1 bar (- 14.5 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD vacuum switches Without setting scale



Adjustable range of each	2nd stage switching point (PB2)	- 0.12 1 bar (- 1.74 14.5 psi)	
switching point	1st stage switching point (PB1)	- 0.10 0.98 bar (- 1.45 14.21 psi)	
(Falling pressure)			
Spread between 2 stages (I	PB2 - PB1)	0.020.88 bar (0.2912.76 psi)	
Electrical connection		Terminals	
Fluid connection		G 1/4 (female)	
References (1)			
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLDM02V1S12	
	Hydraulic oils, fresh water, air, corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLDM02T1S12	
Weight (kg)		1.015	
Complementary cl	haracteristics not shown	under general characteristics (page 17)	
Natural differential	At low setting (3)	0.1 bar (1.45 psi)	
(add to PB1/PB2 to give PH1/PH2)	At high setting (4)	0.1 bar (1.45 psi)	
Maximum permissible	Per cycle	5 bar (72.5 psi)	
pressure	Accidental	9 bar (130.5 psi)	
Destruction pressure Mechanical life Cable entry for terminal models Vacuum switch type		18 bar (261 psi)	
		3 x 10 ⁶ operating cycles	
		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	
		Diaphragm	
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLDM02V1S1	

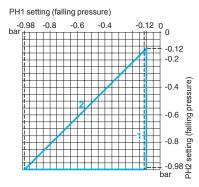
(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLDM02V1S12 becomes XMLDM02V1S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.
(3) Deviation of the differential at low setting point for switches of the same size: ± 0.035 bar (± 0.51 psi)

(4) Deviation of the differential at high setting point for switches of the same size: ± 0.02 bar (± 0.29 psi).

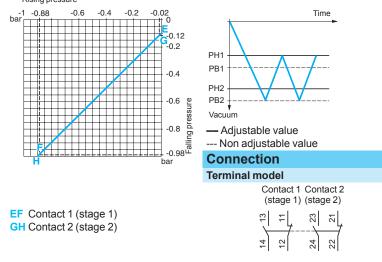
Operating curves

High setting tripping points of contacts 1 and 2



Rising pressure

Natural differential of contacts 1 and 2



1 Maximum differential

2 Minimum differential

Other versions

For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.



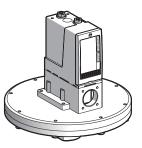
Electromechanical vacuum switches

OsiSense XML

Size - 200 mbar (- 2.9 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB	vacuum switches
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With setting scale



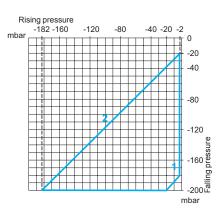
(Falling pressure) Electrical connection		- 20 200 mbar (- 0.29 2.9 psi)	- 20 200 mbar (- 0.29 2.9 psi)		
		Terminals	Terminals		
		G 1/4 (female)	1/4"-18 NPTF (female)		
References (1)					
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLBM03R2S12	XMLBM03R2S13		
Weight (kg)		3.310	3.310		
Complementary c	haracteristics not sho	wn under general characteristics	(page 17)		
Possible differential	Min. at low setting (3)	18 mbar (0.26 psi)			
(add to PB	Min. at high setting (3)	18 mbar (0.26 psi)	18 mbar (0.26 psi)		
to give PH)	Max. at high setting	180 mbar (2.6 psi)	180 mbar (2.6 psi)		
Maximum permissible	Per cycle	1 bar (14.5 psi)			
pressure	Accidental	2 bar (29 psi)	2 bar (29 psi)		
Destruction pressure		3.5 bar (50.75 psi)			
Mechanical life		3 x 10 ⁶ operating cycles	3 x 10 ⁶ operating cycles		
Cable entry for terminal models Vacuum switch type		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm		
		Diaphragm	Diaphragm		
		(1) For 1 entry tapped for no. 13 cable gland, n	eplace S12 with S11 (for example, XMLBM03R2S1		

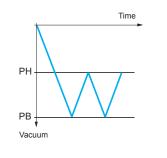
(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLBM03R2S12 becomes XMLBM03R2S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.

 (3) Deviation of the differential at low and high setting points for switches of the same size: ± 2 mbar (± 0.29 psi).

Operating curves





- Adjustable value



1 Maximum differential

2 Minimum differential

Other versions

For vacuum switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: page 68		es: Dimensions: pages 69 to 71	
2	2	(Figure 1)	Telemecanique

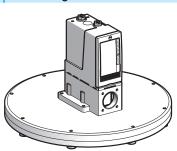
Sensors

Electromechanical pressure switches

OsiSense XML Size 50 mbar (0.72 psi)

Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

With setting scale



	Terminals G 1/4 (female)
draulic oils, air, to + 160 °C	XMLBL05R2S12
esh water, corrosive fluids, to + 160 °C	XMLBL05S2S12
	2.420
teristics not shown	under general characteristics (page 17)
n. at low setting (3)	1.4 mbar (0.02 psi)
n. at high setting (4)	4 mbar (0.06 psi)
x. at high setting	40 mbar (0.58 psi)
r cycle	62.5 mbar (0.90 psi)
cidental	112.5 mbar (1.63 psi)
	225 mbar (3.26 psi)
	6 x 10 ⁶ operating cycles
	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
	Diaphragm
	to + 160 °C sh water, corrosive fluids, to + 160 °C :teristics not shown h. at low setting (3) h. at high setting (4) x. at high setting r cycle

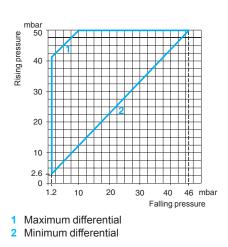
(2) For component materials of units in contact with the fluid, see pages 72 and 73. (3) Deviation of the differential at low setting point for switches of the same size:

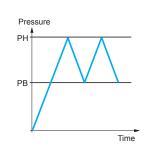
- 0.8 mbar, + 1.1 mbar (- 0.01 psi, + 0.02 psi).

(4) Deviation of the differential at high setting point for switches of the same size: ± 1.4 mbar, (+ 0.02 psi).

Operating curves

Other versions





12 13

Connection **Terminal model**

- Adjustable value

For pressure switches with EN 175301-803-A (ex-DIN 43650A) connector or with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical vacu-pressure switches

OsiSense XML. Size 5 bar (72.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB vacu-pressure switches







Adjustable range of switching point (PH) (Rising pressure) Electrical connection		- 0.55 bar (- 7.2572.5 psi)		
		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)			1	
Fluids controlled	Hydraulic oils, fresh water, air, up to + 70 °C	XMLBM05A2C11	XMLBM05A2S12	XMLBM05A2S13
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLBM05B2C11	XMLBM05B2S12	-
	Corrosive fluids, up to + 160 °C	XMLBM05C2C11	XMLBM05C2S12	-
	Viscous products, up to + 160 °C (G 1¼" fluid connection)	XMLBM05P2C11	XMLBM05P2S12	-
Neight (kg)		0.715	0.685	0.685
Complementary c	haracteristics not shown	under general charac	cteristics (page 17)	
Possible differential	Min. at low setting (3)	0.5 bar (7.25 psi)		
(subtract from PH	Min. at high setting (3)	0.5 bar (7.25 psi)		
to give PB)	Max. at high setting	6 bar (87 psi)		
Maximum permissible	Per cycle	6.25 bar (90.62 psi)		
ressure	Accidental	11.25 bar (163.12 psi)		
Destruction pressure		23 bar (333.5 psi)		
Mechanical life		3 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NP for cable gland, clamping capacity 7 to 13 mm
Vacu-pressure switch type	1	Diaphragm	·	
		(1) For 1 entry tapped for no. 13 c	cable gland, replace S12 with S1	1 (for example, XMLBM05A)

becomes XMLBM05A2S11).

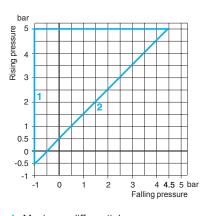
(2) For component materials of units in contact with the fluid, see pages 72 and 73.

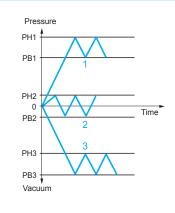
(3) Deviation of the differential at low and high setting points for switches of the same size:

4

± 0.05 bar (± 0.72 psi).

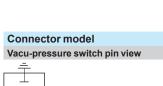
Operating curves





- Adjustable value

Connection **Terminal model** 9 7 12





 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

1 Maximum differential

2 Minimum differential

Other versions

Accessories: page 68

24

For vacu-pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

() Telemecanique Sensors

Electromechanical vacu-pressure switches

OsiSense XML. Size 5 bar (72.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

With setting scale OsiSense XMLC vacu-pressure switches



(Rising pressure)		- 0.555 bar (- 7.9772.5 psi)	
		Terminals	
Fluid connection		G 1/4 (female)	
References (1)			
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLCM05B2S12	
	Corrosive fluids, up to + 160 °C	XMLCM05C2S12	
Weight (kg)		0.685	
Complementary c	haracteristics not shown	under general characteristics (page 17)	
ossible differential	Min. at low setting (3)	0.45 bar (6.52 psi)	
(subtract from PH	Min. at high setting (3)	0.45 bar (6.52 psi)	
to give PB)	Max. at high setting	6 bar (87 psi)	
Maximum permissible	Per cycle	6.25 bar (90.62 psi)	
pressure	Accidental	11.25 bar (163.12 psi)	
Destruction pressure		23 bar (333.5 psi)	
Mechanical life Cable entry for terminal models Vacu-pressure switch type		3 x 10 ⁶ operating cycles	
		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	
		Diaphragm	
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLCM05B2S12	

becomes XMLCM05B2S11). (2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low and high setting points for switches of the same size:

Time

± 0.1 bar (± 1.45 psi).

Pressure

PH1

PB1

PH2

PB2

PH3

РВЗ 🛔

Vacuum

- Adjustable value

4 4.55 5 bar

Falling pressure

0

С	Connection		
Те	rmin	al mo	del
<u>,</u>	Ę[,	23	24
<u></u> 4	12	54	22

Connector model		
Vacu-pres	ssure switch pin view	
÷		
	$1 \rightarrow 11$ and 13	
[1 2]	$2 \rightarrow 12$	
3	$3 \rightarrow 14$	

1 Maximum differential

Operating curves

bar

4

3

1 0.5

0 -0.55

-1

-1 0 1 2 3

1 2

Rising pressure 5

2 Minimum differential

Other versions

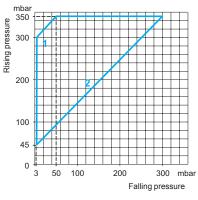
For vacu-pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

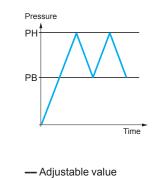
Electromechanical pressure switches OsiSense XML

Size 350 mbar (5.07 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

		With potting pools				
OsiSense XMLB press	ure switches	With setting scale				
Adjustable range of switch (Rising pressure)	ing point (PH)	45350 mbar (0.655.07 psi	i)			
Electrical connection		DIN connector Terminals				
Fluid connection		G 1/4 (female)	G 1/4 (female) 1/4"-18 NPTF (female)			
References (1)						
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLBL35R2C11	XMLBL35R2S12	XMLBL35R2S13		
	Fresh water, corrosive fluids, up to + 160 °C	XMLBL35S2C11	XMLBL35S2S12	-		
	Viscous products, up to + 160 °C (G 1¼" fluid connection)	XMLBL35P2C11	XMLBL35P2S12	-		
Weight (kg)		2.590	2.575	2.575		
Complementary cl	haracteristics not shown	under general charac	cteristics (page 17)			
Possible differential	Min. at low setting (3)	42 mbar (0.60 psi)				
(subtract from PH	Min. at high setting (4)	50 mbar (0.72 psi)				
to give PB)	Max. at high setting	300 mbar (4.35 psi)				
Maximum permissible	Per cycle	1.25 bar (18.12 psi)				
pressure	Accidental	2.25 bar (32.62 psi)				
Destruction pressure		4.5 bar (65.25 psi)				
Mechanical life		4 million operating cycles				
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm		
Pressure switch type		Diaphragm				
		(1) For 1 entry tapped for no. 13 obcomes XMLBL35R2S11).	cable gland, replace S12 with S1 1			
		 (2) For component materials of t (3) Deviation of the differential a - 8 mbar, + 3 mbar (- 0.12 ps) 	units in contact with the fluid, see t low setting point for switches of i, + 0.04 psi). at high setting point for switches of	the same size:		
Operating curves			Connecti	on		

Operating curves





Connection

Terminal model

Connector model

Pressure switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

1 Maximum differential

2 Minimum differential

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

Accessories: page 68

() Telemecanique

Sensors

References, characteristics (continued)

Electromechanical pressure switches OsiSense XML

Size 350 mbar (5.07 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

		With setting scale			
Adjustable range of switching (Rising pressure)	g point (PH)	42330 mbar (0.614.78 psi)			
Electrical connection		Terminals			
Fluid connection		G 1/4 (female)			
References (1)					
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLBS35R2S12			
Weight (kg)		3.500			
	racteristics not sh	nown under general character	istics (page 17)		
Possible differential	Min. at low setting (3)	33 mbar (0.48 psi)			
(subtract from PH	Min. at high setting (4)	58 mbar (0.84 psi)			
to give PB)	Max. at high setting	250 mbar (3.62 psi)			
Maximum permissible	Per cycle	30 bar (435 psi)			
pressure	Accidental	37.5 bar (543.75 psi)			
Destruction pressure		67.5 bar (978.75 psi)			
Mechanical life	1.	2 million operating cycles			
Cable entry for terminal mode			1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector,		
Connector type for connector	models	see page 68	4-pin male connector. For suitable remaie connector,		
Pressure switch type		becomes XMLBS35R1S11). (2) For component materials of units in (3) Deviation of the differential at low s - 8 mbar, + 3 mbar (- 0.12 psi, + 0.	gland, replace S12 with S11 (for example, XMLBS35R1S12 In contact with the fluid, see pages 72 and 73. Setting point for switches of the same size: 04 psi). setting point for switches of the same size:		
Operating curves			Connection		
Operating curves			Terminal model		
mbar		Pressure	$\tilde{\mathbb{C}}$ $\tilde{\mathbb{C}}$		
a) 350 20			전 Connector model Pressure switch connector pin view		
	300 mbar Falling pressure	Time	$ \begin{array}{c} \bot \\ \begin{bmatrix} 1 & 2 \\ \vdots \end{bmatrix} \\ 3 \rightarrow 14 \end{array} $ 1 \rightarrow 11 and 13 $2 \rightarrow 12 \\ 3 \rightarrow 14 $		
1 Maximum differential		— Adjustable value			
2 Minimum differential					
Other versions		For pressure switches with alternative our Customer Care Centre.	tapped cable entries, such as NPT, etc. please consult		

Electromechanical pressure switches OsiSense XML

Size 350 mbar (5.07 psi) Adjustable differential, for regulation between 2 thresholds

Switches with 2 CO single-pole contacts

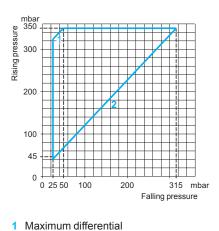
OsiSense XMLC pressure switches		With setting scale		30 bar (435 psi) overpressure With setting scale	
)
Adjustable range of switch (Rising pressure)	ing point (PH)	45350 mbar (0.65	5.07 psi)	42330 mbar (0.61	4.78 psi)
Electrical connection	ectrical connection Terminals			Terminals	
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)			,	1	
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLCL35R2S12	-	XMLCS35R2S12	XMLCS35R2S13
	Fresh water, corrosive fluids, up to + 160 °C	XMLCL35S2S12	XMLCL35S2S13	-	-
Weight (kg)		2.575	2.575	3.500	3.500
Complementary cl	haracteristics not show	n under general o	characteristics (bage 17)	
Possible differential	Min. at low setting (3)	20 mbar (0.29 psi)		40 mbar (0.58 psi)	
(subtract from PH	Min. at high setting (3)	35 mbar (0.51 psi)		88 mbar (1.27 psi)	
to give PB)	Max. at high setting	300 mbar (4.35 psi)		230 mbar (3.33 psi)	
Maximum permissible	Per cycle	1.25 bar (18.12 psi)		30 bar (435 psi)	
pressure	Accidental	2.25 bar (32.62 psi)		37.5 bar (543.75 psi)	
Destruction pressure		4.5 bar (65.25 psi)		67.5 bar (978.75 psi)	
Mechanical life		4 million operating cycl	es	2 million operating cyc	es
Cable entry for terminal mo	odels	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm			,
		becomes XMLCL35	R2S11).	ace S12 with S11 (for exa	ample, XMLCL35R2S12

(2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low setting point for switches of the same size: ± 20 mbar (± 0.29 psi).

Operating curves

2 Minimum differential Other versions



Pressure PH PΒ Time

Connection **Terminal model** 13 5 23 4 72 27

- Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

Accessories: page 68

() Telemecanique Sensors

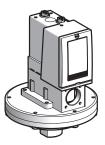
References, characteristics (continued)

Electromechanical pressure switches

OsiSense XML Size 350 mbar (5.07 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches

Without setting scale



Adjustable range of each	2nd stage switching point (PH2)	58350 mbar (0.845.07 psi)			
switching point 1st stage switching point (PH1) (Rising pressure) 1st stage switching point (PH1)		33325 mbar (0.484.71 psi)			
Spread between 2 stages (PH2 - PH1)		25310 mbar (0.364.50 psi)			
Electrical connection		Terminals			
Fluid connection		G 1/4 (female)			
References (1)					
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLDL35R1S12			
Weight (kg)		2.575			
Complementary ch	aracteristics not shown	under general characteristics (page 17)			
Natural differential	At low setting (3)	30 mbar (0.44 psi)			
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	30 mbar (0.44 psi)			
Maximum permissible	Per cycle	1.25 bar (18.12 psi)			
pressure	Accidental	2.25 bar (32.62 psi)			
Destruction pressure		4.5 bar (65.25 psi)			
Mechanical life		4 million operating cycles			
Cable entry for terminal mo	dels	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm			
Pressure switch type		Diaphragm			
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMI DI 35R1S)			

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLDL35R1S12 becomes XMLDL35R1S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low setting point for switches of the same size:

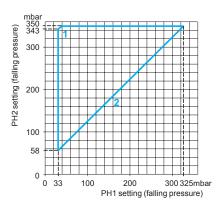
 \pm 10 mbar (\pm 0.15 psi).

(4) Deviation of the differential at high setting point for switches of the same size: ± 8 mbar (± 0.11 psi).

Operating curves

High setting tripping points of contacts 1 and 2

Natural differential of contacts 1 and 2

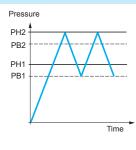


1 Maximum differential

2 Minimum differential

Other versions

GH Contact 2 (stage 2)



— Adjustable value

Connection

Terminal model Contact 1 Contact 2



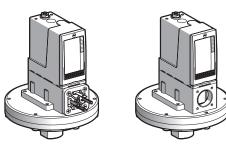
For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Electromechanical pressure switches

OsiSense XML Size 1 bar (14.5 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

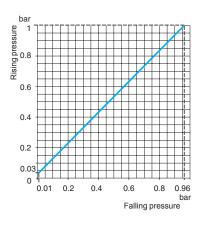
OsiSense XMLA pressure switches

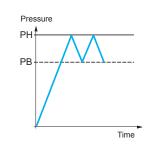
With setting scale



Adjustable range of switch (Rising pressure)	iing point (PH)	0.031 bar (0.43514.5 psi)	(0.43514.5 psi)		
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female) 1/4"-18 NPTF (female)		
References (1)		1	1	1	
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLA001R2C11	XMLA001R2S12	-	
	Fresh water, corrosive fluids, up to + 160 °C	XMLA001S2C11	XMLA001S2S12	XMLA001S2S13	
Weight (kg)		2.570	2.555	2.555	
Complementary c	haracteristics not shown	under general chara	cteristics (page 17)		
Natural differential	At low setting (3)	0.02 bar (0.29 psi)			
(subtract from PH to give PB)	At high setting (3)	0.04 bar (0.58 psi)			
Maximum permissible	Per cycle	1.25 bar (18.12 psi)			
pressure	Accidental	2.25 bar (32.62 psi)			
Destruction pressure		4.5 bar (65.25 psi)			
Mechanical life		4 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Diaphragm			
Pressure switch type		becomes XMLA001R2S11). (2) For component materials of the second secon	cable gland, replace \$12 with \$1 units in contact with the fluid, see t low and high setting points for s	pages 72 and 73.	

Operating curves





Connection **Terminal model** 93 7

5 4

[1

Connector model

Pressure switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: page 68

Dimensions: pages 69 to 71

() Telemecanique Sensors

References, characteristics (continued)

Electromechanical pressure switches

OsiSense XML Size 1 bar (14.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB press	ure switches	With setting scale			
Adjustable range of switch (Rising pressure)	ing point (PH)	0.05…1 bar (0.72…14.5 psi)			
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)					
Fluids controlled	Hydraulic oils, air,	XMLB001R2C11	XMLB001R2S12	XMLB001R2S13	
(2)	up to + 160 °C				
	Fresh water, corrosive fluids, up to + 160 °C	XMLB001S2C11	XMLB001S2S12	XMLB001S2S13	
	Viscous products, up to + 160 °C (G 11/4" fluid connection)	-	XMLB001P2S12	-	
Weight (kg)	(2.590	2.575	2.575	
	naracteristics not shown	under general chara	cteristics (page 17)		
Possible differential	Min. at low setting (3)	0.04 bar (0.58 psi)			
(subtract from PH	Min. at high setting (4)	0.06 bar (0.87 psi)			
to give PB)	Max. at high setting	0.75 bar (10.87 psi)			
Maximum permissible	Per cycle	1.25 bar (18.12 psi)			
pressure	Accidental	2.25 bar (32.62 psi)			
Destruction pressure		4.5 bar (65.25 psi)			
Mechanical life		4 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Diaphragm			
		 For 1 entry tapped for no. 13 d becomes XMLB001R2S11). For component materials of u Deviation of the differential a ± 10 mbar (± 0.14 psi). Deviation of the differential a ± 20 mbar (± 0.29 psi). 	units in contact with the fluid, see t low setting point for switches o t high setting point for switches o	e pages 72 and 73. f the same size: of the same size:	
Operating curves			Connect		
		_	Terminal m	odel	
bar 1 0.8 1 0.8 1 0.8 1 0.8 1 0.8 1 0.8 1 0.8 1 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8		Pressure PH			
ž 0.6		PB	Connector r	nodel	
			Pressure swit	tch connector pin view	
0.4 0.2 0.05 0.01 0.25 0.4 0.6 0.8 0.94		Time		$1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$	
F	bar Falling pressure				
1 Maximum differential		— Adjustable value			
2 Minimum differential		For property suddeb to 200 and	notive tenned as black of the	h as NDT at a start of the	
Other versions		For pressure switches with alter our Customer Care Centre.	native tapped cable entries, suc	in as NPT, etc. please consult	

Telemecanique Sensors

Electromechanical pressure switches

OsiSense XML Size 1 bar (14.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

OsiSense XMLC pressure switches

With setting scale

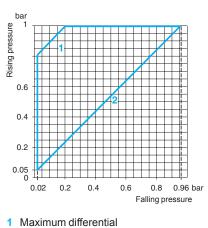


Adjustable range of switch (Rising pressure)	ing point (PH)	0.051 bar (0.72514.5 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female) 1/4"-18 NPTF (female)		
References (1)				
Fluids controlled (2)	Hydraulic oils, air, up to + 160 °C	XMLC001R2S12	XMLC001R2S13	
	Fresh water, corrosive fluids, up to + 160 °C	XMLC001S2S12	XMLC001S2S13	
Weight (kg)		2.555	2.555	
Complementary cl	naracteristics not show	under general characteristics (page 17)		
Possible differential	Min. at low setting (3)	0.03 bar (0.43 psi)		
(subtract from PH	Min. at high setting (4)	0.04 bar (0.58 psi)		
to give PB)	Max. at high setting	0.8 bar (11.6 psi)		
Maximum permissible	Per cycle	1.25 bar (18.12 psi)		
pressure	Accidental	2.25 bar (32.62 psi)		
Destruction pressure		4.5 bar (65.25 psi)		
Mechanical life		4 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 clamping capacity 7 to 13 mm		
Pressure switch type		Diaphragm		

 (2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low setting point for switches of the same size: ± 0.01 bar (± 0.14 psi)

(4) Deviation of the differential at high setting point for switches of the same size: ± 0.03 bar (± 0.43 psi)

Operating curves



Pressure PH PB Time

Connection **Terminal model** 13 7 23 5 7 12 24

- Adjustable value

2 Minimum differential

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

() Telemecanique Sensors

Electromechanical pressure switches

OsiSense XML Size 2.5 bar (36.25 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

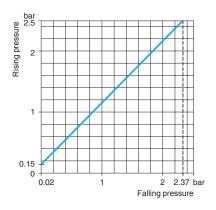
o o lo o li o o	sure switches	With setting scale		
Adjustable range of swite	ching point (PH)	0.152.5 bar (2.1736.2	5 psi)	
Adjustable range of swite (Rising pressure) Electrical connection	ching point (PH)	0.152.5 bar (2.1736.29	5 psi) Terminals	
(Rising pressure)	ching point (PH)			1/4"-18 NPTF (female)
(Rising pressure) Electrical connection	ching point (PH)	DIN connector	Terminals	1/4"-18 NPTF (female)
Rising pressure) Electrical connection Fluid connection	ching point (PH) Hydraulic oils, fresh water, air, up to + 70 °C	DIN connector	Terminals	1/4"-18 NPTF (female) XMLA002A2S13
(Rising pressure) Electrical connection Fluid connection References (1) Fluids controlled	Hydraulic oils, fresh water, air,	G 1/4 (female)	G 1/4 (female)	
(Rising pressure) Electrical connection Fluid connection References (1) Fluids controlled	Hydraulic oils, fresh water, air, up to + 70 °C Hydraulic oils, fresh water, air,	DIN connector G 1/4 (female) XMLA002A2C11	Terminals G 1/4 (female) XMLA002A2S12	XMLA002A2S13

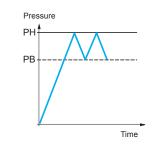
Complementary characteristics not shown under general characteristics (page 17)					
Natural differential	At low setting (3)	0.13 bar (1.88 psi)			
(subtract from PH to give PB)	At high setting (3)	0.13 bar (1.88 psi)			
Maximum permissible	Per cycle	5 bar (72.5 psi)			
pressure	Accidental	9 bar (130.5 psi)			
Destruction pressure		18 bar (261 psi)			
Mechanical life		8 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector, see page 68 1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm 1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm			
Pressure switch type		Diaphragm			

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLA002A2S12 (2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.03 bar (± 0.43 psi).

Operating curves





Connection

Terminal model

Connector model

Pressure switch connector pin view



 $1 \rightarrow 11$ and 13 $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.



Electromechanical pressure switches

OsiSense XML Size 2.5 bar (36.25 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB pressur	re switches	With setting scale			30 bar (435 psi) overpressure With setting scale
Adjustable range of switchin (Rising pressure)	g point (PH)	0.32.5 bar (4.353	6.25 psi)		
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)
Deferences (1)					
References (1) Fluids controlled	Hydraulic oils, fresh water, air,	XMLB002A2C11	XMLB002A2S12	XMLB002A2S13	-
(2)	up to + 70 °C	AMEDOUZAZOTI	XIIILD002A2012	AMEDUUZAZOIJ	
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLB002B2C11	XMLB002B2S12	-	XMLBS02B2S12
	Corrosive fluids, up to + 160 °C	XMLB002C2C11	XMLB002C2S12	-	-
Weight (kg)		1.030	1.015	1.015	3.500
	aracteristics not shown	under general g	characteristics (page 17)	
Possible differential	Min. at low setting (3)	0.16 bar (2.32 psi)			0.1 bar (1.45 psi)
(subtract from PH	Min. at high setting (3)	0.21 bar (3.04 psi)			0.22 bar (3.19 psi)
to give PB)	Max. at high setting	1.75 bar (25.37 psi)			1.45 bar (21 psi)
Maximum permissible	Per cycle	5 bar (72.5 psi)			30 bar (435 psi)
pressure	Accidental	9 bar (130.5 psi)			37.5 bar (543.75 psi)
Destruction pressure		18 bar (261 psi)			67.5 bar (978.75 psi)
Mechanical life		8 x 10 ⁶ operating cycle	S		2 x 10 ⁶ operating cycles
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm			
		becomes XMLB002 (2) For component mat (3) Deviation of the diffe	A2S11). erials of units in contact	lace S12 with S11 (for ex with the fluid, see pages setting points for switches	
Operating curves				Connection	
bar		Pressure		Terminal model	
bar g 2.5 g 2.5 g 2 g 2 g 2 g 2 g 2 g 2 g 2 g 2		PH PB		12 13 13	
				Connector model Pressure switch com	nector pin view
	2 2.29 bar alling pressure		Time		$1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$
1 Maximum differential 2 Minimum differential		- Adjustable value			-
Other versions		For pressure switches v our Customer Care Cer		able entries, such as NP	I, etc. please consult

Telemecanique Sensors

Electromechanical pressure switches

OsiSense XML Size 2.5 bar (36.25 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

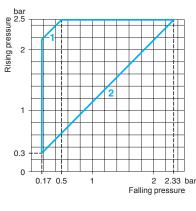
OsiSense XMLC press	ure switches	With setting scale		30 bar (435 psi) ove With setting scale	erpressure
Adjustable range of switch (Rising pressure)	ing point (PH)	0.32.5 bar (4.3536	5.25 psi)		
Electrical connection		Terminals			
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)					
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC002B2S12	XMLC002B2S13	XMLCS02B2S12	XMLCS02B2S13
Weight (kg)		0.995	0.995	3.500	3.500
Complementary c	haracteristics not shown	under general o	haracteristics (bage 17)	
Possible differential	Min. at low setting (3)	0.13 bar (1.89 psi)		0.1 bar (1.45 psi)	
(subtract from PH	Min. at high setting (4)	0.17 bar (2.47 psi)		0.18 bar (2.61 psi)	
to give PB)	Max. at high setting	2 bar (29 psi)		1.25 bar (18.12 psi)	
Maximum permissible	Per cycle	5 bar (72.5 psi)		30 bar (435 psi)	
pressure	Accidental	9 bar (130.5 psi)		37.5 bar (543.75 psi)	
Destruction pressure		18 bar (261 psi)		67.5 bar (978.75 psi)	
Mechanical life		8 x 10 ⁶ operating cycle	S	2 x 10 ⁶ operating cycle	S
Cable entry for terminal mo	odels	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm			
		(2) For component mate	B2S11). erials of units in contact v	ace S12 with S11 (for exa vith the fluid, see pages i nt for switches of the san	

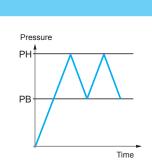
(3) Deviation of the differential at low setting point for switches of the same size:

± 0.02 bar (± 0.29 psi)

 (4) Deviation of the differential at high setting point for switches of the same size: ± 0.03 bar (± 0.43 psi)

Operating curves





- Adjustable value

1 Maximum differential

2 Minimum differential

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

OsiSense XMLA pressure switches

Electromechanical pressure switches

OsiSense XML

With setting scale

Size 4 bar (58 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

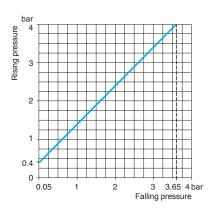
Adjustable range of switch (Rising pressure)	ing point (PH)	0.44 bar (5.858 psi)		
Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA004A2C11	XMLA004A2S12	XMLA004A2S13
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLA004B2C11	XMLA004B2S12	-
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLA004C2C11	XMLA004C2S12	-
	Viscous products, up to + 160 °C (G 1¼" fluid connection)	XMLA004P2C11	XMLA004P2S12	-
Weight (kg)		0.715	0.685	0.685
Complementary c	haracteristics not shown	under general charac	cteristics (page 17)	
Natural differential	At low setting (3)	0.35 bar (5.07 psi)		
(subtract from PH to give PB)	At high setting (3)	0.35 bar (5.07 psi)		
Maximum permissible	Per cycle	5 bar (72.5 psi)		
pressure	Accidental	9 bar (130.5 psi)		
Destruction pressure		18 bar (261 psi)		
Mechanical life		8 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		
		(1) For 1 entry tapped for no. 13 (cable gland, replace S12 with S1	1 (for example, XMLA004A2S12

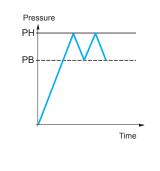
(1) For the symplectic of a war of the symplect of a war of the symplectic of the

(2) For component materials of units in contact with the fluid, see pages 72 and 73.(3) Deviation of the differential at low and high setting points for switches of the same size:

± 0.03 bar (± 0.43 psi)

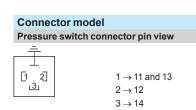
Operating curves





Connection

Terminal model



- Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: Dimensions: page 68 pages 69 to 71

Telemecanique

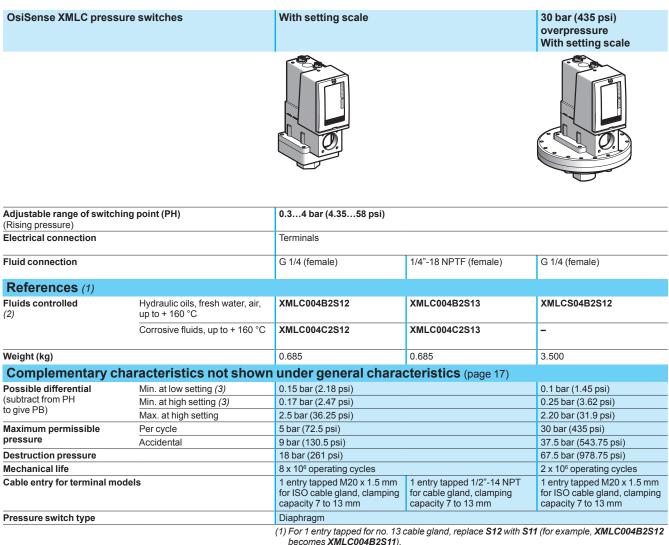
Electromechanical pressure switches OsiSense XML Size 4 bar (58 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB press	ure switches	With setting scale			30 bar (435 psi) overpressure With setting scale
			0		
Adjustable range of switch (Rising pressure)	ing point (PH)	0.254 bar (3.6258	psi)		
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4	G 1/4	1/4"-18 NPTF	G 1/4
References (1)		(female)	(female)	(female)	(female)
Fluids controlled	Hydraulic oils, fresh water, air,	XMLB004A2C11	XMLB004A2S12	XMLB004A2S13	-
(2)	up to + 70 °C Hydraulic oils, fresh water, air,	XMLB004A2011	XMLB004B2S12	-	XMLBS04B2S12
	up to + 160 °C				
	Corrosive fluids, up to + 160 °C	XMLB004C2C11	XMLB004C2S12	-	-
Weight (kg)		1.030	1.015	1.015	3.500
Complementary cl	haracteristics not show	n under general o	characteristics (page 17)	·
Possible differential	Min. at low setting (3)	0.2 bar (2.9 psi)			0.15 bar (2.18 psi)
(subtract from PH to give PB)	Min. at high setting (4)	0.25 bar (3.62 psi)			0.34 bar (4.93 psi)
	Max. at high setting	2.4 bar (34.8 psi)			2.46 bar (35.67 psi)
Maximum permissible pressure	Per cycle Accidental	5 bar (72.5 psi) 9 bar (130.5 psi)			30 bar (435 psi) 37.5 bar (543.75 psi)
Destruction pressure	Accidental	18 bar (261 psi)			67.5 bar (978.75 psi)
Mechanical life		8 x 10 ⁶ operating cycle	S		2 x 10 ⁶ operating cycles
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type Operating curves		becomes XMLB004 . (2) For component mate (3) Deviation of the differ- ± 0.01 bar (± 0.14 ps (4) Deviation of the differ-	A2S11). erials of units in contact to erential at low setting poi si).	lace S12 with S11 (for exwith the fluid, see pages nt for switches of the sart int for switches of the sart Connection	72 and 73. ne size:
bar		Pressure		Terminal model	
anssad Buisia		РН	 \	12 13 13	
2				Connector model Pressure switch con	nector pin view
0.25	3 3.75 bar	γ	Time		$1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$
0.05 1 1.6 2	Falling pressure				
0.05 1 1.6 2 1 Maximum differential 2 Minimum differential	Falling pressure	— Adjustable value			
1 Maximum differential	Falling pressure		vith alternative tapped c	able entries, such as NP	T, etc. please consult

Electromechanical pressure switches

OsiSense XML

Size 4 bar (58 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts



Pressure

PH

PB

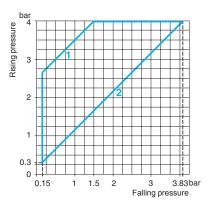
(2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low and high setting points for switches of the same size:

± 0.02 bar (± 0.29 psi).

Connection **Terminal model**

> 3 3

Operating curves



1 Maximum differential

Minimum differential 2

Other versions

Time

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

E Telemecanique

- Adjustable value

Sensors

Accessories

Electromechanical pressure switches

OsiSense XML

Size 4 bar (58 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches

Without setting scale



	and store switching point (DLIQ)	0.40 Abox (5.9 59 ppi)		
Adjustable range of each	2nd stage switching point (PH2)	0.404 bar (5.858 psi)		
switching point (Rising pressure)	1st stage switching point (PH1)	0.19…3.79 bar (2.76…54.96 psi)		
Spread between 2 stages (P	H2 - PH1)	0.212.18 bar (3.0531.61 psi)		
Electrical connection Terminals		Terminals		
Fluid connection		G 1/4 (female)		
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLD004B1S12		
Weight (kg)		1.015		
Complementary ch	aracteristics not shown	under general characteristics (page 17)		
Natural differential	At low setting (3)	0.15 bar (2.18 psi)		
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (3)	0.19 bar (2.76 psi)		
Maximum permissible	Per cycle	5 bar (72.5 psi)		
pressure	Accidental	9 bar (130.5 psi)		
Destruction pressure		18 bar (261 psi)		
Mechanical life		8 x 10 ⁶ operating cycles		
Cable entry for terminal mod	Cable entry for terminal models 1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm			
Pressure switch type		Diaphragm		
-		(1) For 1 entry tapped for no 13 cable gland replace S12 with S11 (for example XML D004B1S12		

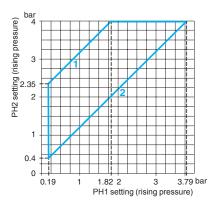
(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLD004B1S12 becomes XMLD004B1S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.(3) Deviation of the differential at low and high setting points for switches of the same size:

± 0.03 bar (± 0.43 psi).

Operating curves

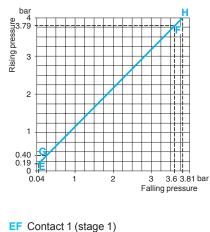
High setting tripping points of contacts 1 and 2



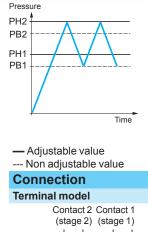
- 1 Maximum differential
- 2 Minimum differential

Other versions

Natural differential of contacts 1 and 2



GH Contact 2 (stage 2)





Electromechanical pressure switches

OsiSense XML

Size 10 bar (145 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

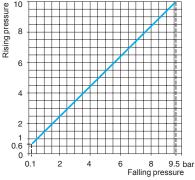
OsiSense XMLA pressure switches

With setting scale

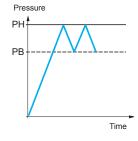




Adjustable range of switch (Rising pressure)	ing point (PH)	0.6…10 bar (8.7…145 psi)			
Electrical connection		DIN connector	Terminals		Terminals
Fluid connection		G 1/4 (female)	G 1/4 (female)		1/4"-18 NPTF (female)
References (1)					
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA010A2C11	XMLA010A2S1	2	XMLA010A2S13
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLA010B2C11	XMLA010B2S1	2	-
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLA010C2C11	XMLA010C2S1	2	XMLA010C2S13
	Viscous products, up to + 160 °C (G 11⁄4" fluid connection)	XMLA010P2C11	XMLA010P2S1	2	-
Weight (kg)		0.715	0.685		0.685
Complementary cl	haracteristics not shown	under general chara	cteristics (pa	age 17)	
Natural differential	At low setting (3)	0.5 bar (7.25 psi)			
(subtract from PH to give PB)	At high setting (3)	0.5 bar (7.25 psi)			
Maximum permissible	Per cycle	12.5 bar (181.25 psi)			
pressure	Accidental	22.5 bar (326.25 psi)			
Destruction pressure		45 bar (652.5 psi)			
Mechanical life		5 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A (ex-DIN	1 entry tapped N		1 entry tapped 1/2"-14 NPT
		43650A), 4-pin male connector. For suitable female connector, see page 68			for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm			
		 (1) For 1 entry tapped for no. 13 (becomes XMLA010A2S11). (2) For component materials of ((3) Deviation of the differential a bar (± 0.72 psi) 	units in contact wi	th the fluid, see	pages 72 and 73.
Operating curves				Connecti	on
				Terminal m	odel
bar		Pressure		11 3	
		РН			



Dimensions: pages 69 to 71



2 2

Connector model

Pressure switch connector pin view



 $1 \rightarrow 11$ and 13 $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value

--- Non adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Other versions

Accessories: page 68

() Telemecanique Sensors

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Electromechanical pressure switches

OsiSense XML Size 10 bar (145 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB pressu	re switches	With setting scale			30 bar (435 psi) overpressure
					With setting scale
Adjustable range of switchir	ng point (PH)	0.710 bar (10.151	45 psi)		
(Rising pressure) Electrical connection		DIN connector	Terminals	Terminals	Terminals
Fluid connection		G 1/4	G 1/4	1/4"-18 NPTF	G 1/4
		(female)	(female)	(female)	(female)
References (1) Fluids controlled	Hydraulic oils, fresh water, air,	XMLB010A2C11	XMLB010A2S12	XMLB010A2S13	XMLBS10A2S12
(2)	up to + 70 °C		XMEDUTUA2012	XIIIEBOTOAZOTO	XWEDO TOAZO TZ
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLB010B2C11	XMLB010B2S12	XMLB010B2S13	-
	Corrosive fluids, up to + 160 °C	XMLB010C2C11	XMLB010C2S12	XMLB010C2S13	-
	Sea water, up to + 30 °C Viscous products, up to + 160 °C (G 1¼" fluid connection)	XMLB010P2C11	XMLB010P2S12	-	-
Weight (kg)	, , , , , , , , , , , , , , , , , , ,	0.735	0.705	0.705	3.500
Complementary ch	aracteristics not shown	under general o	haracteristics (page 17)	
Possible differential	Min. at low setting (3)	0.57 bar (8.26 psi)			0.45 bar (6.52 psi)
(subtract from PH to give PB)	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 Mechanical life		45 bar (652.5 psi) 5 x 10 ⁶ operating cycles			67.5 bar (978.75 psi) 2 x 10 ⁶ operating cycles
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm			
		becomes XMLB010/ (2) For component mate (3) Deviation of the diffe ± 0.05 bar (± 0.72 ps (4) Deviation of the diffe	A2S11. erials of units in contact v rential at low setting poir si).	ace S12 with S11 (for exa vith the fluid, see pages nt for switches of the san int for switches of the sa	72 and 73. ne size:
Operating curves				Connection	
bar		Pressure		Terminal model	
e 10 Builden and a second and a		РН	 \	12 14 13	
6				Connector model	
4		/	Time	Pressure switch cor $\begin{bmatrix} -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ $	1 \rightarrow 11 and 13 2 \rightarrow 12 3 \rightarrow 14
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 9.15 bar alling pressure				
1 Maximum differential 2 Minimum differential	anny product	— Adjustable value			

References, characteristics (continued)

Electromechanical pressure switches

OsiSense XML Size 10 bar (145 psi)

Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

OsiSense XMLC pressu	re switches	With setting scale		30 bar (435 psi) overpressure With setting scale
Adjustable range of switchin (Rising pressure)	ng point (PH)	0.710 bar (10.15145 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	-	-	XMLCS10A2S12
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC010B2S12	XMLC010B2S13	-
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLC010C2S12	XMLC010C2S13	-
Weight (kg)	Veight (kg)		0.685 0.685	
Complementary ch	aracteristics not shown	under general charac	cteristics (page 17)	
Possible differential (subtract from PH to give PB)	Min. at low setting (3) Min. at high setting (4) Max. at high setting	0.45 bar (6.53 psi) 0.70 bar (10.15 psi) 8 bar (116 psi)		0.25 bar (3.62 psi) 0.65 bar (9.42 psi) 5.6 bar (81.2 psi)
Maximum permissible pressure	Per cycle Accidental	12.5 bar (181.25 psi) 22.5 bar (326.25 psi)		30 bar (435 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 mod	dels	1 entry tapped M20 x 1.5 mm1 entry tapped 1/2"-14 NPTfor ISO cable gland, clampingfor cable gland, clampingcapacity 7 to 13 mmcapacity 7 to 13 mm		1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		
		 For 1 entry tapped for no. 13 d becomes XMLC010B2S11). For component materials of d (3) Deviation of the differential a ± 0.05 bar (± 0.72 psi) Deviation of the differential a ± 0.01 bar (± 1.45 psi) 	units in contact with the fluid, se t low setting point for switches c	e pages 72 and 73. If the same size:
Operating curves			Connect	
		Dressure	Terminal m	
bar 10 6 4 2 0.7 0		Pressure PH PB Time	24	<u>·</u> 7

1 Maximum differential

2 Minimum differential

Other versions

- Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

E Telemecanique

Sensors

Accessories: page 68

Electromechanical pressure switches

OsiSense XML

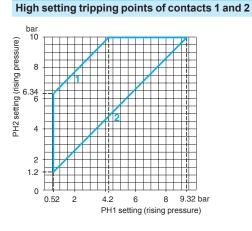
Size 10 bar (145 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches Without setting scale



Adjustable range of each	2nd stage switching point (PH2)	1.210 bar (17.4145 psi)			
switching point (Rising pressure)	1st stage switching point (PH1)	0.529.32 bar (7.54135.14 psi)			
Spread between 2 stages (P	'H2 - PH1)	0.68…5.8 bar (9.86…84.1 psi)			
Fluid connection		G 1/4 (female)			
Electrical connection		Terminals			
References		'			
Fluids controlled (1)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLD010B1S11	XMLD010B1S12		
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLD010C1S11	-		
Weight (kg)		0.705	0.705		
Complementary ch	aracteristics not shown	under general characteristics	(page 17)		
Natural differential	At low setting (2)	0.45 bar (6.53 psi)			
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (3)	0.6 bar (8.7 psi)			
Maximum permissible	Per cycle	12.5 bar (181.25 psi)			
pressure	Accidental	22.5 bar (326.25 psi)			
Destruction pressure		45 bar (652.5 psi)			
Mechanical life		5 x 10 ⁶ operating cycles			
Cable entry for terminal mo	dels	1 entry tapped for no. 13 cable gland	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm		
Pressure switch type		Diaphragm			
		 (1) For component materials of units in contact with the fluid, see pages 72 and 73. (2) Deviation of the differential at low setting point for switches of the same size: ± 0.05 bar (± 0.72 psi) (3) Deviation of the differential at high setting point for switches of the same size: ± 0.1 bar (± 1.45 psi) 			

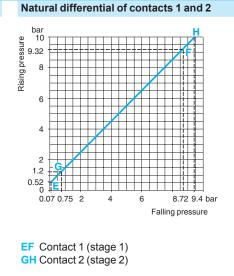
Operating curves



1 Maximum differential

2 Minimum differential

Other versions



Pressure PH2 PB2 PH1 PB1 Time

Adjustable value
 --- Non adjustable value

Connection

Terminal modelContact 2Contact 1(stage 2)(stage 1) \mathfrak{P} \mathfrak{F} \mathfrak{R} \mathfrak{R}

22 23

5 4

Electromechanical pressure switches OsiSense XML Size 20 bar (290 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

OsiSense XMLA pressure	switches	With setting scale		
Adjustable range of switching (Rising pressure)	point (PH)	120 bar (14.5290 psi)		
Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)				
Fluids controlled	Hydraulic oils, fresh water, air,	XMLA020A2C11	XMLA020A2S12	XMLA020A2S13
(2)	up to + 70 °C Hydraulic oils, fresh water, air,	XMLA020B2C11	XMLA020B2S12	-
	up to + 160 °C			
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLA020C2C11	XMLA020C2S12	-
	Viscous products, up to + 160 °C	XMLA020P2C11	XMLA020P2S12	-
Weight (kg)	(G 1¼" fluid connection)	0.715	0.685	0.685
	racteristics not shown	under general chara	cteristics (page 17)	1
Natural differential	At low setting (3)	0.4 bar (5.8 psi)		
(subtract from PH to give PB)	At high setting (3)	1 bar (14.5 psi)		
Maximum permissible pressure	Per cycle	25 bar (362.5 psi)		
Destruction pressure	Accidental	45 bar (652.5 psi) 90 bar (1305 psi)		
Mechanical life		5 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		
		 For 1 entry tapped for no. 13 d becomes XMLA020A2S11). For component materials of 0 (3) Deviation of the differential at ± 0.1 bar (± 1.45 psi) Deviation of the differential at 	units in contact with the fluid, se	e pages 72 and 73. of the same size:
Operating curves			Connect	ion
			Terminal m	odel
bar 20 15		Pressure PH PB	12 14 12 13	
			Connector	model
				tch connector pin view
5 1 0 0.6 5 10 Fa	15 19 bar lling pressure	Time		$1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$
		— Adjustable value Non adjustable value		
Other versions		For pressure switches with alter our Customer Care Centre.	native tapped cable entries, suc	h as NPT, etc. please consult
Accessories: page 68	Dimensions: pages 69 to 71			
44	-	Telemecaníque Sensors		

Electromechanical pressure switches OsiSense XML Size 20 bar (290 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB pressu	re switches	With setting scale			30 bar (435 psi) overpressure With setting scal
Adjustable range of switchin Rising pressure)	g point (PH)	1.320 bar (18.929	0 psi)		
Electrical connection		DIN connector	Terminals	1	
luid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)
References (1)		()	,,	,,	(
luids controlled	Hydraulic oils, fresh water, air,	XMLB020A2C11	XMLB020A2S12	XMLB020A2S13	XMLBS20A2S12
2)	up to + 70 °C Hydraulic oils, fresh water, air,	XMLB020B2C11	XMLB020B2S12	XMLB020B2S13	-
	up to + 160 °C	XMI 000000044	XMI 802002042		
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLB020C2C11	XMLB020C2S12	-	-
	Viscous products, up to + 160 °C (G 1 ¹ ⁄ ₄ " fluid connection)	XMLB020P2C11	XMLB020P2S12	-	-
Veight (kg)		0.735	0.705	0.705	3.500
Complementary ch	aracteristics not shown	under general o	characteristics (page 17)	
ossible differential	Min. at low setting (3)	1 bar (14.5 psi)			0.95 bar (13.78 psi)
subtract from PH o give PB)	Min. at high setting (3)	1.6 bar (23.20 psi)			1.45 bar (21.03 psi)
aximum permissible	Max. at high setting Per cycle	11 bar (159.5 psi) 25 bar (362.5 psi)			12.6 bar (182.7 psi) 30 bar (435 psi)
ressure	Accidental	45 bar (652.5 psi)			37.5 bar (543.75 ps
estruction pressure		90 bar (1305 psi)		67.5 bar (978.75 ps	
lechanical life		5 x 10 ⁶ operating cycles			2 x 10 ⁶ operating cycles
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 1.5 mm for ISO cabl gland, clamping capacity 7 to 13 mm
ressure switch type		Diaphragm	r no. 13 cable gland, repl		
Operating curves		becomes XMLB020, (2) For component mate	A2S11). erials of units in contact we erential at low and high se	vith the fluid, see pages	72 and 73.
bar 20 215		РН	 \	41 12 12 13 13	
10				Connector model	noctor pin view
5 1.3 0.3 5 910	15 18.4 bar Falling pressure		Time	Pressure switch com	nector pin view $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$
 Maximum differential Minimum differential 	g p.0000.0	— Adjustable value			
Other versions		For pressure switches v our Customer Care Cer	vith alternative tapped ca htre.	able entries, such as NP	T, etc. please consult

Electromechanical pressure switches

OsiSense XML

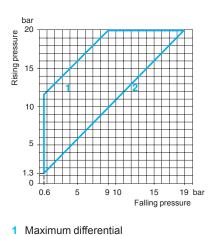
Size 20 bar (290 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

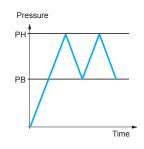
OsiSense XMLC press	ure switches	With setting scale		30 bar (435 psi) overpressure With setting scale
Adjustable range of switch (Rising pressure)	ing point (PH)	1.320 bar (18.85290 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	G 1/4 (female)
References (1)				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	-	-	XMLCS20A2S12
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC020B2S12	XMLC020B2S13	-
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLC020C2S12	XMLC020C2S13	-
Weight (kg)		0.685	0.685	3.500
Complementary c	haracteristics not shown	under general chara	cteristics (page 17)	
Possible differential	Min. at low setting (3)	0.7 bar (10.15 psi)		0.7 bar (10.15 psi)
(subtract from PH	Min. at high setting (3)	1 bar (14.5 psi)		1.15 bar (16.67 psi)
to give PB)	Max. at high setting	11 bar (159.5 psi)		11.70 bar (169.6 psi)
Maximum permissible	Per cycle	25 bar (362.5 psi)		30 bar (435 psi)
pressure	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 mo	Cable entry for terminal models		1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm		
		 For 1 entry tapped for no. 13 becomes XMLC020B2S11). For component materials of (3) Deviation of the differential a 	units in contact with the fluid, se	

(3) Deviation of the differential at low and high setting points for switches of the same size:

± 0.2 bar (± 2.9 psi)

Operating curves





- Adjustable value

Connection **Terminal model** 53 13 7 4 12 52 2

2 Minimum differential

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

Accessories: page 68

Elemecanique Sensors

Electromechanical pressure switches

OsiSense XML

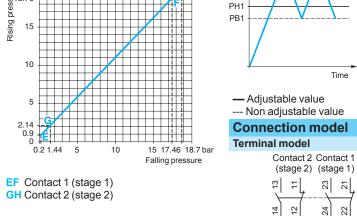
Size 20 bar (290 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressu	ire switches	Without setting scale	
Adjustable range of each	2nd stage	2.1420 bar (31.03290 psi)	
switching point (Rising pressure)	switching point (PH2) 1st stage switching point (PH1)	0.9…18.76 bar (13.05…272.02 psi)	
Spread between 2 stages (P		1.249.55 bar (17.98138.48 psi)	
Electrical connection	···· · · · · · · · · · · · · · · · · ·	Terminals	
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)
References (1)			l
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLD020B1S12	XMLD020B1S13
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLD020C1S12	-
Weight (kg)		0.705	0.705
Complementary ch	aracteristics not shown	under general characteristics (page 17)
Natural differential	At low setting (3)	0.7 bar (10.15 psi)	page)
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	1.3 bar (18.85 psi)	
Maximum permissible	Per cycle	25 bar (362.5 psi)	
pressure	Accidental	45 bar (652.5 psi)	
Destruction pressure		90 bar (1305 psi)	
Mechanical life		5 x 10 ⁶ operating cycles	
Cable entry for terminal mod	dels	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Diaphragm	
		 For 1 entry tapped for no. 13 cable gland, republic becomes XMLD020B1S11). For component materials of units in contact v Deviation of the differential at low setting point ± 0.15 bar (± 2.18 psi) Deviation of the differential at high setting point ± 0.3 bar (± 4.35 psi) 	int for switches of the same size:
Operating curves			
High setting tripping po	ints of contacts 1 and 2	Natural differential of contacts 1 and 2	2
en e		bar 20 18.76 Disso	Pressure PH2 PB2 PH1 PB1

1 Maximum differential

2 Minimum differential

Other versions



Electromechanical pressure switches

OsiSense XML Size 35 bar (507.5 psi)

Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

OsiSense XMLA pressure switches

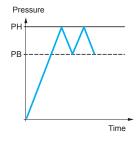
With setting scale





Adjustable range of switching point (PH) (Rising pressure)		1.535 bar (21.75507.5 psi)			
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)		1	1		
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLA035A2C11	XMLA035A2S12	XMLA035A2S13	
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLA035B2C11	XMLA035B2S12	-	
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLA035C2C11	XMLA035C2S12	-	
	Viscous products, up to + 160 °C (G 1¼" fluid connection)	XMLA035P2C11	XMLA035P2S12	-	
Weight (kg)		0.725	0.695	0.695	
Complementary c	haracteristics not shown	under general chara	cteristics (page	17)	
Natural differential	At low setting (3)	1.25 bar (18.12 psi)			
(subtract from PH to give PB)	At high setting (3)	1.25 bar (18.12 psi)			
Maximum permissible	Per cycle	45 bar (652.5 psi)			
pressure	Accidental	80 bar (1160 psi)			
Destruction pressure		160 bar (2320 psi)			
Mechanical life		5 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68		clamping for cable gland, clamping	
Pressure switch type		Diaphragm			
		becomes XMLA035A2S11). (2) For component materials of t	units in contact with th	12 with S11 (for example, XMLA035A2S) re fluid, see pages 72 and 73. points for switches of the same size:	
Operating curves			Co	onnection	
			Те	rminal model	
bar 35		Pressure	ا ت	⊊L	

Rising pressu 30 20 10 1.5 0 0.25 10 20 30 33.75 bar Falling pressure



2 2

Connector model

Pressure switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Elemecanique Sensors

Electromechanical pressure switches

OsiSense XML Size 35 bar (507.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

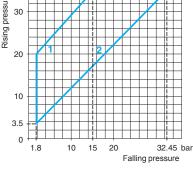
OsiSense XMLB pressure switches

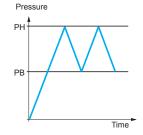
With setting scale





Adjustable range of switching point (PH) (Rising pressure)		3.535 bar (50.75507.5 psi)				
Electrical connection		DIN connector	Terminals			
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)		
References (1)		1				
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 70 °C	XMLB035A2C11	XMLB035A2S12	XMLB035A2S13		
	Hydraulic oils, fresh water, air, up to + 160 °C	XMLB035B2C11	XMLB035B2S12	-		
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLB035C2C11	XMLB035C2S12	-		
	Viscous products, up to + 160 °C (G 1¼" fluid connection)	-	XMLB035P2S12	-		
Weight (kg)		0.745	0.715	0.715		
Complementary of	haracteristics not shown	under general chara	cteristics (page 17)			
Possible differential	Min. at low setting (3)	1.7 bar (24.65 psi)				
(subtract from PH to give PB)	Min. at high setting (3)	2.55 bar (36.97 psi)				
	Max. at high setting	20 bar (290 psi)				
Maximum permissible	Per cycle	45 bar (652.5 psi)				
pressure	Accidental	80 bar (1160 psi)				
Destruction pressure		160 bar (2320 psi)				
Mechanical life		5 x 10 ⁶ operating cycles				
Connection		EN 175301-803-A connector (ex-DIN 43650A), 4-pin male. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm			
Pressure switch type		Diaphragm				
		 For 1 entry tapped for no. 13 becomes XMLB035A2S11). For component materials of (3) Deviation of the differential a - 0.5 bar, + 0.7 bar (- 7.25 ps) 	units in contact with the fluid, se t low and high setting points for	e pages 72 and 73.		
Operating curves			Connect	tion		
			Terminal n	nodel		
bar 35 8 8 30		Pressure				





Connector model Pressure switch connector pin view



 $1 \rightarrow 11$ and 13 $2 \rightarrow 12$ $3 \rightarrow 14$

1 Maximum differential

2 Minimum differential

Other versions

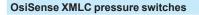
- Adjustable value



Electromechanical pressure switches

OsiSense XML

Size 35 bar (507.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts



With setting scale



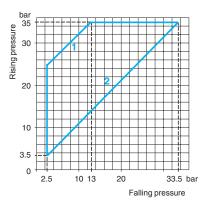
Adjustable range of switching point (PH) (Rising pressure)		3.535 bar (50.75507.5 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)			1	
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLC035B2S12	XMLC035B2S13	
	Corrosive fluids, up to + 160 °C Sea water, up to + 30 °C	XMLC035C2S12	XMLC035C2S13	
Weight (kg)		0.695	0.695	
Complementary c	haracteristics not shown	under general characteristics	(page 17)	
Possible differential	Min. at low setting (3)	1 bar (14.5 psi)		
(subtract from PH	Min. at high setting (4)	1.5 bar (21.75 psi)		
to give PB)	Max. at high setting	22 bar (319 psi)		
Maximum permissible	Per cycle	45 bar (652.5 psi)		
pressure	Accidental	80 bar (1160 psi)		
Destruction pressure		160 bar (2320 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	1 entry tapped 1/2"-14 NPT for cable gland clamping capacity 7 to 13 mm	
Pressure switch type		Diaphragm		

(2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low setting point for switches of the same size:

± 0.2 bar (± 2.9 psi)

(4) Deviation of the differential at high setting point for switches of the same size: ± 0.5 bar (± 7.25 psi)

Operating curves



Pressure PH PB Time



- Adjustable value

1 Maximum differential 2

Minimum differential

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Dimensions: pages 69 to 71

Acces sories:

> () Telemecanique Sensors

Electromechanical pressure switches

OsiSense XML Size 35 bar (507.5 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches	Without setting scale
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Adjustable range of each	2nd stage switching point (PH2)	4.435 bar (63.8507.5 psi)			
switching point 1st stage switching point (Rising pressure) 1st stage switching point		1.932.5 bar (27.55471.25 psi)			
Spread between 2 stages (P	'H2 - PH1)	2.520.4 bar (36.25295.8 psi)			
Electrical connection		Terminals			
Fluid connection		G 1/4 (female)			
References (1)					
Fluids controlled (2)	Hydraulic oils, fresh water, air, up to + 160 °C	XMLD035B1S12			
Weight (kg)		0.715			
Complementary ch	naracteristics not shown	under general characteristics (page 17)			
Natural differential	At low setting (3)	1.5 bar (21.75 psi)			
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	2.6 bar (37.7 psi)			
Maximum permissible	Per cycle	45 bar (652.5 psi)			
pressure	Accidental	80 bar (1160 psi)			
Destruction pressure		160 bar (2320 psi)			
Mechanical life		5 x 10 ⁶ operating cycles			
Cable entry for terminal mo	dels	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm			
Pressure switch type		Diaphragm			
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLD035B1S12 becomes XMLD035B1S11).			
		(2) For component materials of units in contact with the fluid, see pages 72 and 73			

(2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low setting point for switches of the same size:

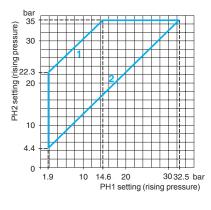
± 0.3 bar (± 4.35 psi)

(4) Deviation of the differential at high setting point for switches of the same size:

± 0.7 bar (± 10.15 psi)

Operating curves

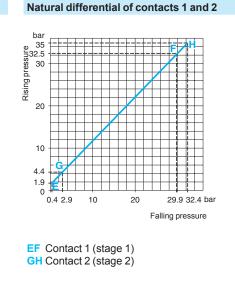
High setting tripping points of contacts 1 and 2

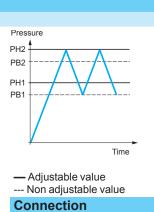


1 Maximum differential

2 Minimum differential

Other versions





Terminal model



Electromechanical pressure switches

OsiSense XML

Size 70 bar (1015 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

OsiSense XMLA pressure switches

With setting scale



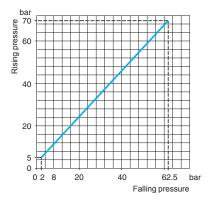


Adjustable range of switching point (PH) (Rising pressure)		570 bar (72.51015 psi)	570 bar (72.51015 psi)		
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)					
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLA070D2C11	XMLA070D2S12	XMLA070D2S13	
	Fresh water, up to + 160 °C	XMLA070E2C11	XMLA070E2S12	XMLA070E2S13	
	Corrosive fluids, air, up to + 160 °C	XMLA070N2C11	XMLA070N2S12	-	
Weight (kg)		0.725	0.695	0.695	
Complementary c	haracteristics not sho	own under general charac	cteristics (page 17)		
Natural differential	At low setting (3)	3 bar (43.5 psi)	3 bar (43.5 psi)		
(subtract from PH to give PB)	At high setting (3)	9.5 bar (137.75 psi)	9.5 bar (137.75 psi)		
Maximum permissible	Per cycle	90 bar (1035 psi)			
pressure	Accidental	160 bar (2320 psi)			
Destruction pressure		320 bar (4640 psi)	320 bar (4640 psi)		
Mechanical life		6 x 10 ⁶ operating cycles	6 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston			
		(1) For 1 entry tapped for no. 13 (becomes XMLA070D2S11). (2) For component materials of u	0, 1		

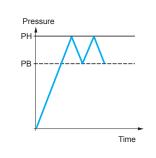
(2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low and high setting points for switches of the same size: ±1

bar (± 14.5 psi)

Operating curves



Dimensions: pages 69 to 71



Connection

Terminal model ♀│ ♀│

₹) 0

Connector model Pressure switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: page 68

Telemecanique

Sensors

Electromechanical pressure switches

OsiSense XML Size 70 bar (1015 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB pressure switches

With setting scale





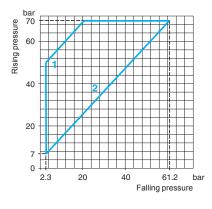
Adjustable range of switching point (PH) (Rising pressure)		770 bar (101.51015 psi)			
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)				1	
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLB070D2C11	XMLB070D2S12	XMLB070D2S13	
	Fresh water, up to + 160 °C	XMLB070E2C11	XMLB070E2S12	-	
	Corrosive fluids, air, up to + 160 °C	XMLB070N2C11	XMLB070N2S12	-	
Weight (kg)		0.745	0.715	0.715	
Complementary c	haracteristics not sho	wn under general charao	cteristics (page 17)		
Possible differential	Min. at low setting (3)	4.7 bar (68.15 psi)	4.7 bar (68.15 psi)		
(subtract from PH	Min. at high setting (4)	9.5 bar (137.75 psi)	9.5 bar (137.75 psi)		
to give PB)	Max. at high setting	50 bar (725 psi)	50 bar (725 psi)		
Maximum permissible	Per cycle	90 bar (1035 psi)			
pressure	Accidental	160 bar (2320 psi)			
Destruction pressure		320 bar (4640 psi)	320 bar (4640 psi)		
Mechanical life		6 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A connector (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NP for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston			
		(1) For 1 entry tapped for no. 13 (becomes XMLB070D2S11). (2) For component materials of i	cable gland, replace S12 with S1		

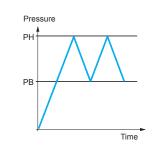
(2) For component materials of units in contact with the fluid, see pages 72 and 73.

(3) Deviation of the differential at low setting point for switches of the same size:

- 0.4 bar, + 0.7 bar (- 5.8 psi, + 10.15 psi).
(4) Deviation of the differential at high setting point for switches of the same size:
- 0.6 bar, + 0.8 bar (- 8.7 psi, + 11.6 psi).

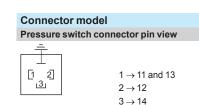
Operating curves





Connection Terminal model 33 7

12 4



Maximum differential 1

2 Minimum differential

Other versions

- Adjustable value



Electromechanical pressure switches

OsiSense XML

Size 70 bar (1015 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

OsiSense XMLC	pressure switches
---------------	-------------------

With setting scale

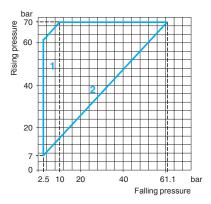


Adjustable range of switching point (PH) (Rising pressure)		770 bar (101.51015 psi)	770 bar (101.51015 psi)		
Electrical connection		Terminals			
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)		
References (1)					
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLC070D2S12	XMLC070D2S13		
	Fresh water, up to + 160 °C	XMLC070E2S12	-		
	Corrosive fluids, air, up to + 160 °C	XMLC070N2S12	-		
Weight (kg)		0.695	0.695		
Complementary c	haracteristics not sho	wn under general characteristics	(page 17)		
Possible differential	Min. at low setting (3)	4.5 bar (65.25 psi)	4.5 bar (65.25 psi)		
(subtract from PH	Min. at high setting (3)	9.5 bar (137.75 psi)			
to give PB)	Max. at high setting	60 bar (870 psi)			
Maximum permissible	Per cycle	90 bar (1035 psi)			
pressure	Accidental	160 bar (2320 psi)			
Destruction pressure		320 bar (4640 psi)	320 bar (4640 psi)		
Mechanical life		6 x 10 ⁶ operating cycles	6 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	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm		
Pressure switch type		Piston			
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC070D2S1			

 For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XM becomes XMLC070D2S11).
 For component materials of units in contact with the fluid, see pages 72 and 73. 13 cable gland, replace S12 with S11 (for example, XMLC070D2S12

(3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.8 bar (± 11.6 psi)

Operating curves



Pressure РН PB Time

C	Connection				
Те	rmin	al mo	del		
13	₽Ļ	23	50		
4	12	54	52		

- Adjustable value

1 Maximum differential Minimum differential 2

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

() Telemecanique Sensors

Accessories: page 68

Electromechanical pressure switches

OsiSense XML

Size 70 bar (1015 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches

Without setting scale



Adjustable range of each	2nd stage switching point (PH2)			
switching point (Rising pressure)	1st stage switching point (PH1)			
Spread between 2 stages (F	PH2 - PH1)	2.846 bar (40.6667 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)		1	1	
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLD070D1S12	XMLD070D1S13	
	Corrosive fluids, air, up to + 160 °C	XMLD070N1S12	-	
Weight (kg)		0.715	0.715	
Complementary ch	naracteristics not shown	under general characteristics ((page 17)	
Natural differential	At low setting (3)	5 bar (72.5 psi)		
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	9.5 bar (137.75 psi)		
Maximum permissible	Per cycle	90 bar (1035 psi)		
pressure	Accidental	160 bar (2320 psi)		
Destruction pressure		320 bar (4640 psi)		
Mechanical life		6 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	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston	·	

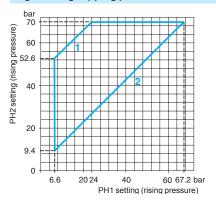
 (1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLD070D1S1) becomes XMLD070D1S11).
 (2) For component materials of units in contact with the fluid, see pages 72 and 73.

 (2) For component materials of units in contact with the huld, see pages 72 and 73
 (3) Deviation of the differential at low setting point for switches of the same size: ± 1.5 bar (± 21.75 psi)

 (4) Deviation of the differential at high setting point for switches of the same size: ± 2 bar (± 29 psi)

Operating curves

High setting tripping points of contacts 1 and 2

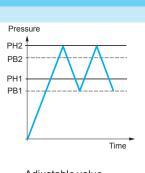


- 1 Maximum differential
- 2 Minimum differential

Other versions

bar for 2 for 3 for 3 for 4 for

Natural differential of contacts 1 and 2



--- Adjustable value

Connection

Terminal model

	ntact 2		
(st	tage 2)	(stag	je 1)
13	₽Ļ	53	5
5		>	
4	12	24	3

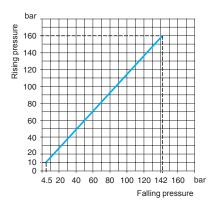


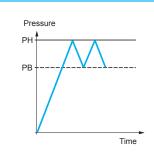
Electromechanical pressure switches

OsiSense XML Size 160 bar (2320 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

OsiSense XMLA pressure switches		With setting scale			
Adjustable range of switch (Rising pressure)	ing point (PH)	10160 bar (1452320 psi)			
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)			1		
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLA160D2C11	XMLA160D2S12	XMLA160D2S13	
	Fresh water, up to + 160 °C	XMLA160E2C11	XMLA160E2S12	XMLA160E2S13	
	Corrosive fluids, air, up to + 160 °C	XMLA160N2C11	XMLA160N2S12	-	
Weight (kg)		0.780	0.750	0.750	
Complementary c	haracteristics not shov	vn under general chara	cteristics (page 17)		
Natural differential	At low setting (3)	5.5 bar (79.75 psi)			
(subtract from PH to give PB)	At high setting (4)	18 bar (261 psi)			
Maximum permissible	Per cycle	200 bar (2900 psi)			
pressure	Accidental	360 bar (5220 psi)			
Destruction pressure		720 bar (10,440 psi)	720 bar (10,440 psi)		
Mechanical life		6 x 10 ⁶ operating cycles			
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68		1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston			
		becomes XMLA160D2S11). (2) For component materials of a (3) Deviation of the differential a ± 1 bar (± 14.5 psi)	cable gland, replace \$12 with \$1 units in contact with the fluid, see t low setting point for switches of at high setting point for switches	f the same size: of the same size:	

Operating curves





Connection **Terminal model** 13 1 12 7

Connector model

Pressure switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value

--- Non adjustable value

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: page 68 Dimensions: pages 69 to 71 Elemecanique

Sensors

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Electromechanical pressure switches

OsiSense XML Size 160 bar (2320 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB pressure switches

With setting scale



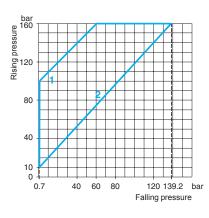


Adjustable range of switching point (PH) (Rising pressure)		10…160 bar (145…2320 psi)			
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)					
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLB160D2C11	XMLB160D2S12	XMLB160D2S13	
	Fresh water, up to + 160 °C	XMLB160E2C11	XMLB160E2S12	-	
	Corrosive fluids, air, up to + 160 °C	XMLB160N2C11	XMLB160N2S12	-	
Weight (kg)		0.780	0.750	0.750	
Complementary c	haracteristics not sho	wn under general charao	cteristics (page 17)		
Possible differential	Min. at low setting (3)	9.3 bar (134.85 psi)	9.3 bar (134.85 psi)		
(subtract from PH	Min. at high setting (4)	20.8 bar (301.6 psi)	20.8 bar (301.6 psi)		
to give PB)	Max. at high setting	100 bar (1450 psi)			
Maximum permissible	Per cycle	200 bar (2900 psi)			
pressure	Accidental	360 bar (5220 psi)			
Destruction pressure		720 bar (10,440 psi)	720 bar (10,440 psi)		
Mechanical life		6 x 10 ⁶ operating cycles	6 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston			
		(1) For 1 entry tapped for no. 13 o becomes XMLB160D2S11).	0, 1		
		(2) For component materials of ι	units in contact with the fluid, see	e pages 72 and 73.	

(3) Deviation of the differential at low setting point for switches of the same size:

- 1.8 bar, + 1.5 bar (- 26.1 psi, + 21.75 psi). (4) Deviation of the differential at high setting point for switches of the same size: - 1.9 bar, + 1.6 bar (- 27.55 psi, + 23.2 psi).

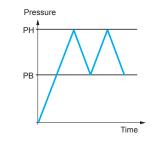
Operating curves



1 Maximum differential

2 Minimum differential

Other versions



Connection **Terminal model** 13 7

12 4

Connector model Pressure switch connector pin view



 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

- Adjustable value



OsiSense XMLC pressure switches

Electromechanical pressure switches

OsiSense XML

With setting scale

Size 160 bar (2320 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

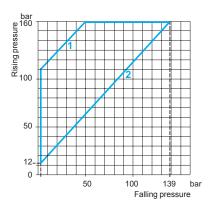
Adjustable range of switching point (PH) (Rising pressure) Electrical connection		12160 bar (1742320 psi)		
		Terminals	Terminals	
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	
References (1)				
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLC160D2S12	XMLC160D2S13	
	Fresh water, up to + 160 °C	XMLC160E2S12	-	
	Corrosive fluids, air, up to + 160 °C	XMLC160N2S12	-	
Weight (kg)		0.750	0.750	
Complementary c	haracteristics not sho	wn under general characteristics	(page 17)	
Possible differential	Min. at low setting (3)	9 bar (130.5 psi)	9 bar (130.5 psi)	
(subtract from PH	Min. at high setting (3)	21 bar (304.5 psi)		
to give PB)	Max. at high setting	110 bar (1590 psi)		
Maximum permissible	Per cycle	200 bar (2900 psi)		
pressure	Accidental	360 bar (5220 psi)		
Destruction pressure		720 bar (10 440 psi)	720 bar (10 440 psi)	
Mechanical life		6 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	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston		

(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC160D2S12 becomes XMLC160D2S11).

 (2) For component materials of units in contact with the fluid, see pages 72 and 73.
 (3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.9 bar (± 13.05 psi)

± 0.9 bar (± 13.05 psi)

Operating curves



Pressure PH PB Time



- Adjustable value

Maximum differential
 Minimum differential

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

(E) Telemecanique

Sensors

Electromechanical pressure switches

OsiSense XML

Size 160 bar (2320 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches Without setting scale



Adjustable range of each	2nd stage switching point (PH2)	16.5…160 bar (239.25…2320 psi)			
switching point (Rising pressure)	1st stage switching point (PH1)	10.5154 bar (152.252233 psi)			
Spread between 2 stages (F	PH2 - PH1)	683 bar (871203.5 psi)			
Electrical connection		Terminals			
Fluid connection		G 1/4 (female) 1/4"-18 NPTF (female)			
References (1)		1			
Fluids controlled (2)	Hydraulic oils, up to + 160 °C	XMLD160D1S12	XMLD160D1S13		
	Fresh water, up to + 160 °C	XMLD160E1S12	-		
Weight (kg)		0.750	0.750		
Complementary cl	naracteristics not shown	under general characteristics	(page 17)		
Natural differential	At low setting (3)	8.8 bar (127.6 psi)			
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	20 bar (290 psi)			
Maximum permissible	Per cycle	200 bar (2900 psi)			
pressure	Accidental	360 bar (5220 psi)			
Destruction pressure		720 bar (10,440 psi)			
Mechanical life		6 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	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm		
Pressure switch type		Piston			

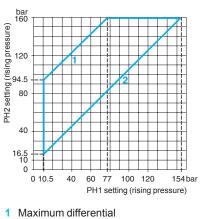
(1) For Fentry tapped for no. 15 cabe giand, replace \$12 with \$11 (for example, XMLD160D1) becomes XMLD160D1\$11).
 (2) For component materials of units in contact with the fluid, see pages 72 and 73.

 (2) For component materials of units in contact with the huld, see pages 72 and 73
 (3) Deviation of the differential at low setting point for switches of the same size: ± 1.5 bar (± 21.75 psi)

(4) Deviation of the differential at high setting point for switches of the same size: ± 7 bar (± 101.5 psi)

Operating curves

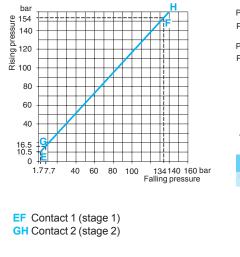
High setting tripping points of contacts 1 and 2

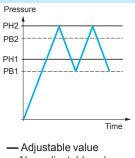


2 Minimum differential

Other versions

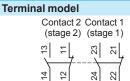
Natural differential of contacts 1 and 2





--- Non adjustable value

Connection



Electromechanical pressure switches OsiSense XML

Size 300 bar (4350 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

OsiSense XMLA press	sure switches	With setting scale		
Adjustable range of switch	ning point (PH)	20300 bar (2904350 psi)		
(Rising pressure) Electrical connection		DIN connector	Terminals	
Fluid connection		G 1/4 (female)	G 1/4 (female)	1/4"-18 NPTF (female)
References (1)		·	·	
Fluids controlled	Hydraulic oils, up to + 160 °C	XMLA300D2C11	XMLA300D2S12	XMLA300D2S13
(2) (5)	Fresh water,	XMLA300E2C11	XMLA300E2S12	XMLA300E2S13
	up to + 160 °C Corrosive fluids, air, up to + 160 °C	XMLA300N2C11	XMLA300N2S12	-
Weight (kg)		0.780	0.750	0.750
Complementary c	haracteristics not show	wn under general charae	cteristics (page 17)	1
Natural differential	At low setting (3)	16.5 bar (239.25 psi)		
(subtract from PH to give PB)	At high setting (4)	35 bar (507.5 psi)		
Maximum permissible	Per cycle	375 bar (5437.5 psi)		
pressure	Accidental	675 bar (9787.5 psi)		
Destruction pressure		1350 bar (19 575 psi)		
Mechanical life Connection		3 x 10 ⁶ operating cycles	1 optry tapped M20 x 1.5 mm	1 ontru tannod 1/2" 14 NDT
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston		
		 (1) For 1 entry tapped for no. 13 (becomes XMLA300D2S11). (2) For component materials of u (3) Deviation of the differential a ± 3 bar (± 43.5 psi) (4) Deviation of the differential a ± 6 bar (± 87 psi) (5) Only for control of group 2 flut 	units in contact with the fluid, see t low setting point for switches o at high setting point for switches	e pages 72 and 73. f the same size: of the same size:
Operating curves			Connect	ion
			Terminal m	odel
bar 93303 300		Pressure PH PB		
200			Connector	model
			Pressure swi	tch connector pin view
		<u>₽</u> Time		$1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$
3.5 100 20	00 265 300 bar Falling pressure			
	. Sinny product	— Adjustable value		
Other versions		Non adjustable value For pressure switches with alter	native tanned cable optrios, que	h as NPT etc. please consult
Julei versions		i or pressure switches with aller	nauve lapped cable entries, suc	as MET, etc. please consult

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: page 68 60

Elemecanique

Dimensions: pages 69 to 71

Sensors

Electromechanical pressure switches OsiSense XML

Size 300 bar (4350 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB pressure switches

With setting scale

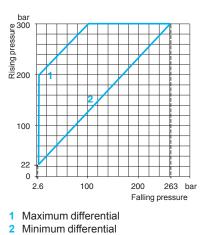




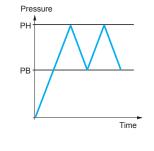
Adjustable range of switching point (PH) (Rising pressure)		22300 bar (3194350 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female)	1/4"-18 NPTF (female)	
			1	
Hydraulic oils, up to + 160 °C	XMLB300D2C11	XMLB300D2S12	XMLB300D2S13	
Fresh water, up to + 160 °C	XMLB300E2C11	XMLB300E2S12	-	
Corrosive fluids, air, up to + 160 °C	XMLB300N2C11	XMLB300N2S12	-	
	0.780	0.750	0.750	
racteristics not show	n under general chara	cteristics (page 17)		
Min. at low setting (3)	19.4 bar (281.3 psi)			
Min. at high setting (4)	37 bar (536.5 psi)			
Max. at high setting	200 bar (2900 psi)			
Per cycle	375 bar (5437.5 psi)			
Accidental	675 bar (9787.5 psi)			
	1350 bar (19,575 psi)			
	3 x 10 ⁶ operating cycles			
	EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68		1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
	Piston			
	becomes XMLB300D2S11). (2) For component materials of 0 (3) Deviation of the differential a - 1.5 bar, + 1.7 bar (- 21.75 p	units in contact with the fluid, see t low setting point for switches of si, + 24.65 psi).	e pages 72 and 73. f the same size:	
	Min. at low setting (3) Min. at high setting (4) Max. at high setting Per cycle	Min. at low setting (3) 19.4 bar (281.3 psi) Min. at high setting (4) 37 bar (536.5 psi) Max. at high setting 200 bar (2900 psi) Per cycle 375 bar (5437.5 psi) Accidental 675 bar (9787.5 psi) 1350 bar (19,575 psi) 3 x 10° operating cycles EN 175301-803-A (ex-DIN 43650A), 4-pin male connector, For suitable female connector, see page 68 Piston (1) For 1 entry tapped for no. 13 becomes XMLB300D2S11). (2) For component materials of (3) Deviation of the differential a - 1.5 bar, + 1.7 bar (- 21.75 p	Min. at low setting (3) 19.4 bar (281.3 psi) Min. at high setting (4) 37 bar (536.5 psi) Max. at high setting 200 bar (2900 psi) Per cycle 375 bar (5437.5 psi) Accidental 675 bar (9787.5 psi) 3 x 10° operating cycles 3 x 10° operating cycles EN 175301-803-A (ex-DIN 43650A), 4-pin male connector, For suitable female connector, see page 68 1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm Piston (1) For 1 entry tapped for no. 13 cable gland, replace S12 with S1	

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

Operating curves



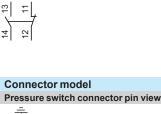
Other versions



Connection Terminal model

[1

| 2] പ്ര





- Adjustable value



Electromechanical pressure switches OsiSense XML

Size 300 bar (4350 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts





Adjustable range of switching point (PH) (Rising pressure) Electrical connection Fluid connection		22300 bar (3194350 psi)	
		Terminals	
		G 1/4 (female)	
References (1)			
Fluids controlled Hydraulic oils, (2) (4) up to + 160 °C		XMLC300D2S12	
	Fresh water, up to + 160 °C	XMLC300E2S12	
	Corrosive fluids, air, up to + 160 °C	XMLC300N2S12	
Weight (kg)		0.750	
Complementary c	haracteristics not sho	wn under general characteristics (page 17)	
Possible differential	Min. at low setting (3)	16 bar (232 psi)	
(subtract from PH	Min. at high setting (3)	35 bar (507.5 psi)	
to give PB)	Max. at high setting	240 bar (3480 psi)	
Maximum permissible	Per cycle	375 bar (5437.5 psi)	
pressure	Accidental	675 bar (9787.5 psi)	
Destruction pressure		1350 bar (19 575 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	
Pressure switch type		Piston	
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC300D2S12	

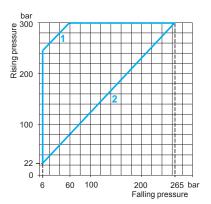
becomes XMLC300D2S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.

 (3) Deviation of the differential at low and high setting points for switches of the same size: ± 0.9 bar (± 13.05 psi)

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

Operating curves



1 Maximum differential

2 Minimum differential

Other versions

Pressure PH PB Time

Terminal model 13 24 25 26 27 28 29

Connection

- Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Telemecanique

Sensors

Electromechanical pressure switches OsiSense XML

Size 300 bar (4350 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

Without setting scale **OsiSense XMLD pressure switches**

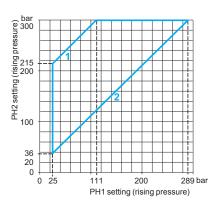


Adjustable range of each	2nd stage switching point (PH2)	36…300 bar (522…4350 psi)		
switching point (Rising pressure)	1st stage switching point (PH1)	25…289 bar (362.5…4190.5 psi)		
Spread between 2 stages (PH2 - PH1)		11…189 bar (159.5…2740.5 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female) 1/4"-18 NPTF (female)		
References (1)				
Fluids controlled (2) (5)	Hydraulic oils, up to + 160 °C	XMLD300D1S12	XMLD300D1S13	
	Fresh water, up to + 160 °C	XMLD300E1S12	-	
	Corrosive fluids, air, up to + 160 °C	XMLD300N1S12	-	
Weight (kg)		0.750	0.750	
Complementary characteristics not shown		under general characteristics (page 17)	
Natural differential	At low setting (3)	17 bar (246.5 psi)		
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	42 bar (609 psi)		
Maximum permissible	Per cycle	375 bar (5437.5 psi)		
pressure	Accidental	675 bar (9787.5 psi)		
Destruction pressure		1350 bar (19,575 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	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston		
		(1) For 1 entry tapped for no. 13 cable gland, repl beomes XMLD300D1S11).	ace S12 with S11 (for example, XMLD300D1S12	
		 (2) For component materials of units in contact v (3) Deviation of the differential at low setting poin ± 2.5 bar (± 36.25 psi) 	nt for switches of the same size:	
		(4) Deviation of the differential at high setting po ± 9 bar (± 130.5 psi)	int for switches of the same size:	

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

Operating curves

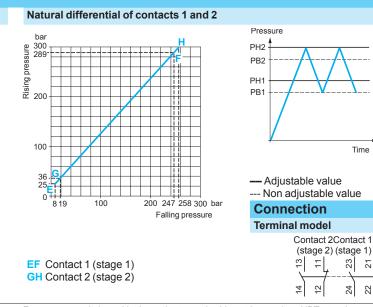
High setting tripping points of contacts 1 and 2



1 Maximum differential

2 Minimum differential

Other versions



For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

21

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OsiSense XMLA pressure switches

Electromechanical pressure switches

OsiSense XML Size 500 bar (7250 psi) Fixed differential, for detection of a single threshold Switches with 1 CO single-pole contact

Adjustable range of switching point (PH) 30...500 bar (435...7250 psi) (Rising pressure) Electrical connection **DIN** connector Terminals Fluid connection 1/4"-18 NPTF (female) G 1/4 (female) G 1/4 (female) **References** (1) XMLA500D2C11 Fluids controlled XMLA500D2S12 XMLA500D2S13 Hydraulic oils, (2) (5) up to + 160 °C XMLA500E2C11 XMLA500E2S12 XMLA500E2S13 Fresh water, up to + 160 °C XMLA500N2C11 XMLA500N2S12 Corrosive fluids, air. up to + 160 °C 0.780 0.750 0.750 Weight (kg) Complementary characteristics not shown under general characteristics (page 17) 20 bar (290 psi) Natural differential At low setting (3) (subtract from PH At high setting (4) 45 bar (652.5 psi) to give PB) Maximum permissible Per cycle 625 bar (9062.5 psi) pressure Accidental 1125 bar (16,312.5 psi) 2250 bar (32,625 psi) **Destruction pressure** Mechanical life 3 x 106 operating cycles Connection EN 175301-803-A (ex-DIN 1 entry tapped M20 x 1.5 mm 1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm for ISO cable gland, clamping 43650A), 4-pin male connector. capacity 7 to 13 mm For suitable female connector, see page 68 Pressure switch type Piston (1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLA500D2S12 becomes XMLA500D2S11). (2) For component materials of units in contact with the fluid, see pages 72 and 73. (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** Pressure bar 9500 400 <u>e</u> 7 ΡН 2 PB Risin 300 **Connector model** Pressure switch connector pin view 200 Time 100 [1 2 $1 \rightarrow 11$ and 13<u>_3</u> $2 \rightarrow 12$ 30 0 $3 \rightarrow 14$ 300 400 455 I Falling pressure 400 455 bar 10 100 200

With setting scale

Other versions

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Accessories: Dimensions: page 68 pages 69 to 71

> Telemecanique Sensors

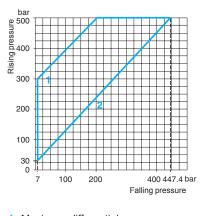
--- Adjustable value

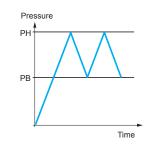
Electromechanical pressure switches

OsiSense XML Size 500 bar (7250 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

OsiSense XMLB press	ure switches	With setting scale			
Adjustable range of switch (Rising pressure)	ing point (PH)	30500 bar (4357250 psi)			
Electrical connection		DIN connector	Terminals		
Fluid connection		G 1/4 (female)	G 1/4 (female) 1/4"-18 NPTF (femal		
References (1)					
Fluids controlled (2) (5)	Hydraulic oils, up to + 160 °C	XMLB500D2C11	XMLB500D2S12	XMLB500D2S13	
. , . ,	Fresh water, up to + 160 °C	XMLB500E2C11	XMLB500E2S12	-	
	Corrosive fluids, air, up to + 160 °C	XMLB500N2C11	XMLB500N2S12	-	
Weight (kg)		0.780	0.750	0.750	
Complementary c	haracteristics not sho	wn under general charae	cteristics (page 17)		
Possible differential	Min. at low setting (3)	23 bar (333.5 psi)			
(subtract from PH	Min. at high setting (4)	52.6 bar (762.7 psi)			
to give PB)	Max. at high setting	300 bar (4350 psi)			
Maximum permissible	Per cycle	625 bar (9062.5 psi)			
pressure	Accidental	1125 bar (16,312.5 psi)			
Destruction pressure		2250 bar (32,625 psi)			
Mechanical life		3 x 10 ⁶ operating cycles	3 x 10 ⁶ operating cycles		
Connection		EN 175301-803-A (ex-DIN 43650A), 4-pin male connector. For suitable female connector, see page 68	1 entry tapped M20 x 1.5 mm for ISO cable gland, clamping capacity 7 to 13 mm	1 entry tapped 1/2"-14 NPT for cable gland, clamping capacity 7 to 13 mm	
Pressure switch type		Piston			
		becomes XVILB500D2S11). (2) For component materials of u (3) Deviation of the differential a - 2.6 bar, + 3.8 bar (- 37.7 psi (4) Deviation of the differential a - 14.8 bar, + 11.2 bar (- 214.6	t high setting point for switches o	pages 72 and 73. the same size: of the same size:	

Operating curves





Connection Terminal model ♡ Ţ

4 2 1 1 1

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





 $1 \rightarrow 11 \text{ and } 13$ $2 \rightarrow 12$ $3 \rightarrow 14$

Maximum differential
 Minimum differential

Other versions

- Adjustable value



Electromechanical pressure switches

OsiSense XML

Size 500 bar (7250 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2 CO single-pole contacts

OsiSense XMLC	pressure switches
---------------	-------------------

With setting scale



(Rising pressure) Electrical connection		30500 bar (4357250 psi)
		Terminals
		G 1/4 (female)
References (1)		
Fluids controlled (2) (4)	Hydraulic oils, up to + 160 °C	XMLC500D2S12
	Corrosive fluids, air, up to + 160 °C	XMLC500N2S12
Weight (kg)		0.750
Complementary c	haracteristics not sho	wn under general characteristics (page 17)
Possible differential	Min. at low setting (3)	19 bar (275.5 psi)
(subtract from PH	Min. at high setting (3)	52 bar (754 psi)
to give PB)	Max. at high setting	340 bar (4930 psi)
Maximum permissible	Per cycle	625 bar (9062.5 psi)
pressure	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 tappedJe préfère acheter des.5 mm for ISO cable gland, clamping capacity 7 to 13 mm
Pressure switch type		Piston
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLC500D2S12 becomes XMLC500D2S11)

becomes XMLC500D2S11).

(2) For component materials of units in contact with the fluid, see pages 72 and 73.(3) Deviation of the differential at low and high setting points for switches of the same size:

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

	(1) Chily for Control of Group 2 harde, in a		
Operating curves		Connection	
		Terminal model	
bar bar bar bar bar bar bar bar	Pressure PH PB	$\begin{array}{c c} 14 \\ 12 \\ 22 \\ 21 \\ 22 \\ 21 \\ 21 \\ 21 \\$	

Time

- Adjustable value

For pressure switches with alternative tapped cable entries, such as NPT, etc. please consult our Customer Care Centre.

Telemecanique Sensors

200

100 30 0

11

100 160 200

1 Maximum differential

2 Minimum differential Other versions

300

400 448 bar

Falling pressure

Electromechanical pressure switches

OsiSense XML Size 500 bar (7250 psi) Dual stage, fixed differential, for detection at each threshold Switches with 2 CO single-pole contacts

OsiSense XMLD pressure switches

Without setting scale



Adjustable range of each	2nd stage switching point (PH2)	41500 bar (594.57250 psi)		
switching point (Rising pressure)				
Spread between 2 stages (PH2 - PH1)		16…244 bar (232…3538 psi)		
Electrical connection		Terminals		
Fluid connection		G 1/4 (female)		
References (1)				
Fluids controlled (2) (5)	Hydraulic oils, up to + 160 °C	XMLD500D1S12		
Weight (kg)		0.750		
Complementary ch	aracteristics not shown	under general characteristics (page 17)		
Natural differential	At low setting (3)	21 bar (304.5 psi)		
(subtract from PH1/PH2 to give PB1/PB2)	At high setting (4)	65 bar (942.5 psi)		
Maximum permissible	Per cycle	625 bar (9062.5 psi)		
pressure	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		
Pressure switch type		Piston		
		(1) For 1 entry tapped for no. 13 cable gland, replace S12 with S11 (for example, XMLD500D1S12 becomes XMLD500D1S11)		

(1) For Fentry tapped for no. 15 cable giand, replace \$12 with \$11 (for example, XMLD500D becomes XMLD500D1\$11).
 (2) For component materials of units in contact with the fluid, see pages 72 and 73.

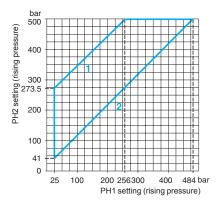
 (3) Deviation of the differential of units in contact with the hold, see pages 72 and 73
 (3) Deviation of the differential at low setting point for switches of the same size: ± 3 bar (± 43.5 psi)

 (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

High setting tripping points of contacts 1 and 2

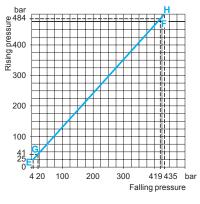




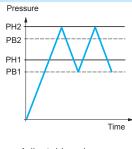
2 Minimum differential

Other versions

Natural differential of contacts 1 and 2



EF Contact 1 (stage 1) GH Contact 2 (stage 2)



— Adjustable value --- Non adjustable value

Connection Terminal mode

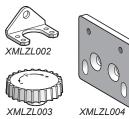
inal mo	odel		
		Conta (stag	
13	Ęļ,	33	24
4	12	24	22



Electromechanical pressure and vacuum switches OsiSense XMLA, XMLB, XMLC and XMLD

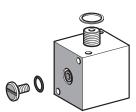
Accessories and replacement parts





5 R XMLZL001





XMLZL005



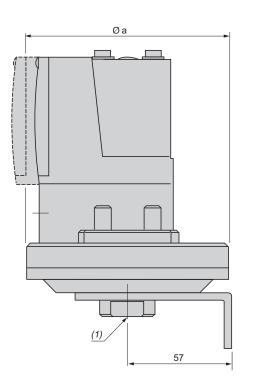


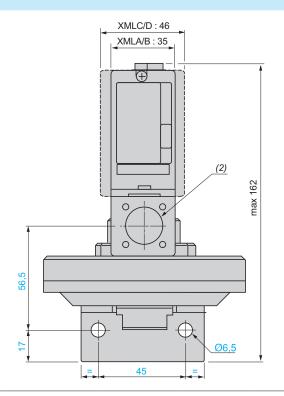
Accessories for pressure	Specific	For use with	Unit reference	Weight	
Description	characteristics	switches	ontreference	Weight kg	
Rear fixing bracket for vibrations > 2 gn	-	XMLeL35 XMLe001	XMLZL006	0.230	
Additional top support bracket for vibrations > 4 gn	-	XMLAM01 XMLeM05 XMLA004 XMLe010 XMLe500	XMLZL002	0.020	
Knurled adjustment knob, Ø 36 mm fits over adjustment screws to facilitate setting	-	All models	XMLZL003	0.010	
Fixing plate for replacing an XMJA or XMGB switch XML switch	– with an	XMLAM01 XMLeM05 XMLA004 XMLe010 XMLe500	XMLZL004	0.110	
Lead sealable protective cover to prevent unauthorised access to adju screws and fixing screw of switch cove		XMLA XMLB	XMLZL001	0.035	
Lead sealable protective cover to prevent unauthorised access to adju screws	stment	All types	XMLZL011	0.030	
Indicator modules Without s and associated covers, scale 2 LEDs (orange and green)	setting \sim or $= 24/48$ V	XMLA/B	XMLZZ024	0.090	
(\sim 110/240 V	XMLA/B	XMLZZ120	0.090	
With setting sca	ing scale \sim or $=$ 24/48 V	XMLA	XMLZA024	0.090	
		XMLB	XMLZB024	0.090	
	\sim 110/240 V	XMLA	XMLZA120	0.090	
		XMLB	XMLZB120	0.090	
Hydraulic block for base mounting directly onto fluid ma		All types	XMLZL005	0.240	
Female EN 175301-803-A connector (ex-DIN 43650A)	-	XML •••••C11	XZCC43FCP40B	0.035	
Adaptor, G 1/4"/G 3/8" male/female	-	All types	XMLZL012	0.130	
Replacement parts					
Sealing gasket (pack of 10 gaskets)	For sizes ≥ 300 b	ar (XMLA/B/C/D)	XMLZL010	0.015	
Diaphragms	-	XML•S35	XMLZL013	0.060	
		XML•S02	XMLZL014	0.040	
		XML•S04	XMLZL015	0.030	

Dimensions

XMLeL35, XMLe001, XMLeS

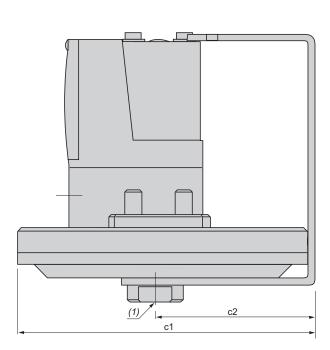
Electromechanical pressure and vacuum switches OsiSense XMLA, XMLB, XMLC and XMLD





(1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female)
 (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5 or 1/2"-14 NPT

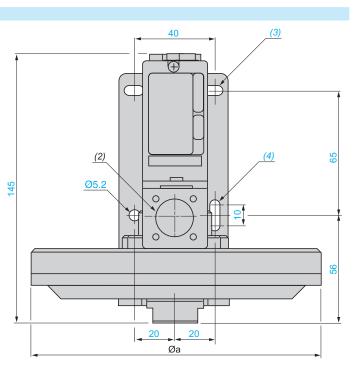
XMLBM03, XMLBL05



(1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female) (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5

or 1/2"-14 NPT

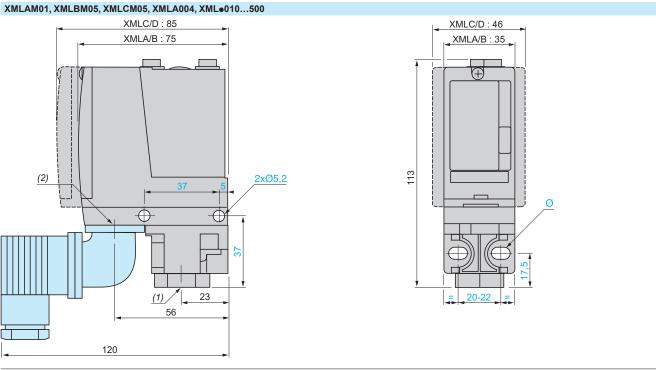
(3) 2 elongated holes Ø 10.2 x 5.2 (4) 1 elongated hole Ø 15.2 x 5.2



XML	Øa	c1	c2	
BM03	150	155.5	80.5	
BL05	200	204	104	
●L35, ●001	110	_	-	
●S35, ●S02, ●S04	110	_	-	
●S10, ●S20	86	_	_	

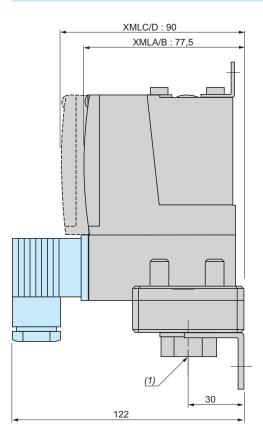
Electromechanical pressure and vacuum switches

OsiSense XMLA, XMLB, XMLC and XMLD



(1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female) (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5 or 1/2"-14 NPT Ø: 2 elongated holes Ø 5.2 x 6.7

XMLeM02, XMLe002, XMLB004, XMLC004, XMLD004



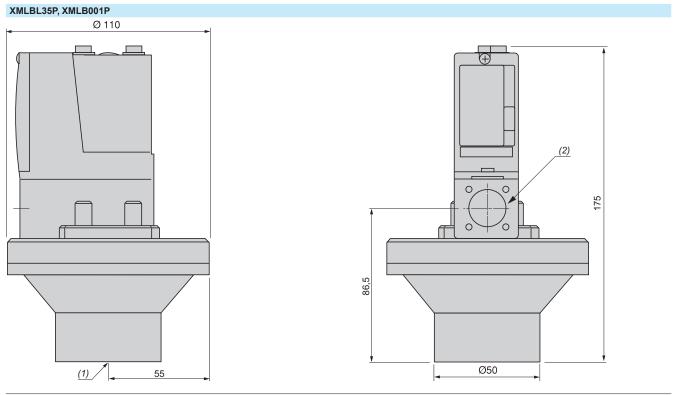
55 XMLC/D : 46 XMLA/B : 35 Ø5,2 (+) $(\widehat{+})$ 106 (2) 158 С 0 С 0 34 ø $\left(+ \right)$ <u></u> <u>37-40</u>

(1) 1 fluid entry, tapped G 1/4 (female) or 1/4"-18 NPTF (female)
(2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5 or 1/2"-14 NPT
Ø: 2 elongated holes Ø 10.2 x 5.2

D. 2 clongatou	10100 0 10.2 × 0.2		
Characteristics: pages 17 to 67			
70		E Telemecanique	

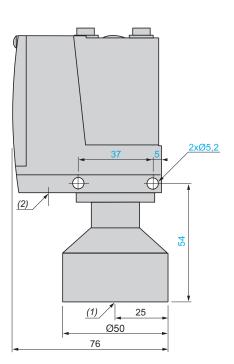
Electromechanical pressure and vacuum switches

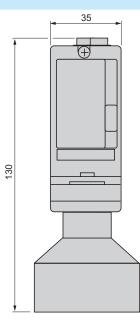
OsiSense XMLA, XMLB, XMLC and XMLD



(1) 1 fluid entry, tapped G 1¼ (female) (2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5

XMLBM05P, XMLA004P, XMLe010P, XMLe020P, XMLe035P





(1) 1 fluid entry, tapped G 1¼ (female)

(2) 1 electrical connections entry, tapped M20 x 1.5 mm or Pg 13.5

Component materials of units in contact with fluid

Electromechanical pressure and vacuum switches

This information will assist in checking the corrosion resistance of the pressure or vacuum switches in relation to the fluids controlled

	Component materials in contact with fluid							
Pressure or vacuum switch reference	Zinc alloy	Stainless steel	Brass	Steel	Nitrile	PTFE	FPM, FKM	Aluminium
XMLAM01Veeee, XMLeM02Veeee		(1)						
XMLAM01Teeee, XMLeM02Teeee		(2)						
XMLBM03R.								
XMLBM03S		(3)						
XMLeM05Aeeee		(1)						
XMLeM05Beeee		(1)						
XMLeM05Ceeee		(1)						
XMLBM05Peeee		(1)						
XMLBL05Reeee								
XMLBL05Seeee		(3)						
XMLeL35Reese, XMLeS35Reese		(1)						
XMLeL35Seeee		(3)						
XMLBL35Peeee		(1)				_		
XML=001R====		(1)						
XML=001S====		(3)						
XMLB001Peeee		(1)						
XML•002A••••							_	
XMLe002Beeee, XMLeS02Beeee								
XML•002C••••		(3)						
XMLA004A••••								
XMLA004B••••								
XMLA004C••••		(2)						
XMLA004P••••								

Component materials in contact with fluid

(1) 1.4307 (AISI 304L) (2) 1.4404 (AISI 316L) (3) 1.4305 (AISI 303)

Component materials of units in contact with fluid

Electromechanical pressure and vacuum switches

OsiSense XML

This information will assist in checking the corrosion resistance of the pressure or vacuum switches in relation to the fluids controlled

	Component materials in contact with fluid							
Pressure switch reference	Zinc alloy	Stainless steel	Brass	Steel	Nitrile	PTFE	FPM, FKM	Aluminium
XMLB004A++++								
XMLe004Beeee, XMLeS04Beeee								
XMLe004Ceeee		(3)						
XMLe010Aeeee								
XMLe010Beeee								
XMLe010Ceeee		(2)						
XMLe010Peese, XMLeS10Aeeee								
XMLe020Aeeee, XMLe035Aeeee								
XMLe020Beeee, XMLe035Beeee								
XMLe020Ceeee, XMLe035Ceeee		(2)						
XMLe020Peeee, XMLe035Peeee, XMLeS20Aeeee								
XMLe070Deese, XMLe160Deese								
XMLe070Eeeee, XMLe160Eeeee		(4)						
XMLe070Neese, XMLe160Neese		(5)						
XML=300D====								
XML=300E====		(4)						
XML=300N====		(5)						
XML=500D====								
XML•500E••••								
XMLe500Neeee4		(5)						

Component materials in contact with fluid

(2) 1.4404 (AISI 316L) (3) 1.4305 (AISI 303) (4) 1.4404 (AISI 316L) + 1.4462 (5) 1.4404 (AISI 316L) + 1.4305 (AISI 303)

Electromechanical pressure switches

OsiSense XM For control circuits, OsiSense ACW and ADW

Presentation

 $\label{eq:pressure} Pressure \ switches \ OsiSense \ ACW \ and \ ADW \ are \ switches \ for \ control \ circuits, \ with \ an \ adjustable \ differential.$

Pressure switches OsiSense ACW are used to control the pressure of air, oils and other non corrosive fluids, up to 131 bar.

Pressure switches OsiSense ADW are used to control the pressure of oils (including synthetic), up to 340 bar.

Setting, operating principle

Pressure switches OsiSense ACW

The switching point on falling pressure (low point - PB) is adjusted using screw 1.

The switching point on rising pressure (high point - PH) is made by adjusting screw 2. This sets the differential between the low and high points, giving a switching point on rising pressure of the displayed low point setting plus the differential setting.

The two adjustments are completely independent.

Contact block operation

When the rising pressure reaches the high point setting (low point setting + differential setting), contact B (1-2) opens and contact A (3-4) closes. The contacts remain actuated until the pressure falls back to the low point setting.

Pressure switches OsiSense ADW

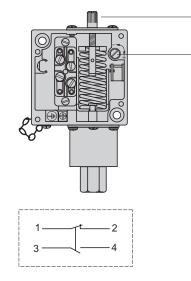
The switching point on rising pressure (high point - PH) is adjusted using screw 1.

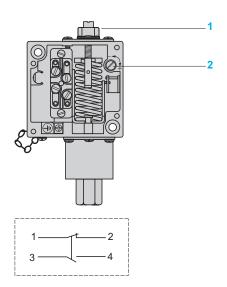
The switching point on falling pressure (low point - PB) is made by adjusting screw 2. This sets the differential between the high and low points, giving a switching point on falling pressure of the displayed high point setting minus the differential setting.

The two adjustments are completely independent.

Contact block operation

When the rising pressure reaches the high point setting, contact B (1-2) opens and contact A (3-4) closes. The contacts remain actuated until the pressure falls back to the low point setting (high point setting - differential setting).







Characteristics

Electromechanical pressure switches OsiSense XM

OsiSense XM For control circuits, OsiSense ACW and ADW

Environment characteristics		ACW (bellows operated)	ADW (piston operated)
Pressure switch type		ACW (bellows operated)	ADVV (piston operated)
Conformity to standards		C€, IEC/EN 60947-5-1	
Product certifications		CSA, UL (Recognized), EAC	
Protective treatment		"TC"	
Materials		Zinc alloy case Phosphor bronze bellows	Zinc alloy case Pressure switches with drainage hole: Buna N diaphragm, steel piston, cast iror cylinder Pressure switches with Quad-Ring pistor seal: Buna N diaphragm, Teflon and Vitor seal, stainless steel piston and cylinder
Ambient air temperature (for operation)	°C	- 56+ 85	- 30+ 85
Fluids controlled		Air, oils and other non corrosive fluids, from - 73 to + 125°C	Oils and other fluids, from - 25 to + 120°C (for ADW5, ADW6, ADW7S1, ADW25 and ADW26) Oils (including synthetic) only, from - 30 to + 125°C (for ADW3, ADW4, ADW7 ADW23, ADW24 and ADW27)
Degree of protection		IP 65 conforming to IEC/EN 60529	
Fluid connection		G 1/4 (BSP female) conforming to NF E 03-005, ISO 228	G 3/8 (BSP female) conforming to NF E 03-005, ISO 228
Electrical connection Terminals		1 tapped entry for n° 13 (DIN Pg 13.5) c	ADWeM119012 and ADWeeM119012).
Contact block characteristics			
Rated operational current Category AC-15		1 CO sing pressure Ue 24 V Ie 110 V 5 A 220 V 5 A 500 V 3 A 1.4 A	
Category DC-13		Ue Ie 24 V 5 A 110 V 0.5 A 220 V 0.25 A 500 V 0.10 A 600 V 0.06 A	le 1.5 A 0.25 A - - -
Short-circuit protection		10 A cartridge fuse type gG	
Connection		Screw terminals Minimum clamping capacity: 1 x 1 mm ² Maximum clamping capacity: 2 x 2.5 mr	n²

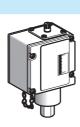


References, characteristics, curves, connections

Electromechanical pressure switches OsiSense XM For control circuits, OsiSense ACW Sizes 0.70 to 131 bar (10.15 to 1900 psi) Adjustable differential, for regulation between 2 thresholds Fluid connection G 1/4 (female)

Pressure switches OsiSense ACW





Adjustable range of switching point (PB) (Falling pressure)			0.070.70 bar (1.0110.15 psi)	0.071.4 bar (1.0120.3 psi)	0.075.2 bar (1.0175.4 psi)	0.077.6 bar (1.01110.2 psi)	
References				·			
Switches with 1 CO sin	ngle-pole contac	t					
Electrical connection	With one tapped e M20 x 1.5 mm for		ACW3M119012	ACW4M119012	ACW5M119012	ACW1M119012	
	With one tapped e for n° 13 cable gla		ACW3M129012	ACW4M129012	ACW5M129012	ACW1M129012	
Weight (kg)			1.750		1.550		
Switches with 2 CO si	ngle-pole contac	ts	·		· · · · · · · · · · · · · · · · · · ·		
Electrical connection With one tapped entry M20 x 1.5 mm for ISO			ACW23M119012	ACW24M119012	ACW25M119012	ACW21M119012	
	With one tapped entry for n° 13 cable gland		ACW23M129012	ACW24M129012	ACW25M129012	ACW21M129012	
Weight (kg)			1.750 1.550				
Complementary of	haracteristic	s not shown	under general	characteristics ((page 75)		
Possible differential (add to PB to give PH)	1 CO switches	Min.	0.04 bar (0.58 psi)	0.10 bar (1.45 psi)	0.30 bar (4.35 psi)	0.50 bar (7.25 psi)	
		Max.	0.34 bar (4.93 psi)	0.40 bar (5.8 psi)	1 bar (14.5 psi)	2 bar (29 psi)	
	2 CO switches	Min.	0.05 bar (0.73 psi)	0.14 bar (2.03 psi)	0.41 bar (5.95 psi)	0.9 bar (13.05 psi)	
		Max.	0.48 bar (6.96 psi)	0.70 bar (10.15 psi)	1.4 bar (20.3 psi)	2.8 bar (40.6 psi)	
Maximum permissible pre	essure		2 bar (29 psi)		7 bar (101.5 psi)	17 bar (246.5 psi)	
Fluids controlled			Air, oils and other non corrosive fluids, from - 73 to + 125°C (1)				
Mechanical life			1 x 10 ⁶ operating cycles (average value, depending on application)				
Cable entry, ACW•M119012, ACW2•M119012 screw terminals			1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm				
	ACWeM129012, A	ACW2•M129012	1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm				

Operating curve Pressure РН PB

Time

Contact block connections 4 0

--- Adjustable value Other versions

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

Bellows operated

1.412 bar	0.718 bar	0.721 bar	5.234 bar	1069 bar	24131 bar
(20.3174 psi)	(10.15261 psi)	(10.15304.5 psi)	(75.4493 psi)	(1451000 psi)	(3481900 psi)
References					
Switches with 1 C	O single-pole contact				
ACW8M119012	ACW9M119012	ACW2M119012	ACW6M119012	ACW7M119012	ACW10M119012
ACW8M129012	ACW9M129012	ACW2M129012	ACW6M129012	ACW7M129012	ACW10M129012
1.550		2.100			
Switches with 2 CO	O single-pole contacts				
ACW28M119012	-	ACW22M119012	ACW26M119012	-	ACW20M119012
ACW28M129012	ACW29M129012	ACW22M129012	ACW26M129012	ACW27M129012	ACW20M129012
1.550		2.100			
Complementar	ry characteristics	not shown under g	jeneral characteri	stics (page 75)	
0.70 bar (10.15 psi)	1 bar (14.5 psi)	1.7 bar (24.7 psi)	3.4 bar (49.3 psi)	5.9 bar (85.6 psi)	11 bar (159.5 psi)
2 bar (29 psi)	1.7 bar (24.7 psi)	8.6 bar (124.7 psi)	8.3 bar (120.4 psi)	10 bar (145 psi)	21 bar (304.5 psi)
1 bar (14.5 psi)	1.6 bar (23.2 psi)	2.4 bar (34.8 psi)	5.9 bar (85.6 psi)	9.3 bar (134.9 psi)	17 bar (246.5 psi)
2.8 bar (40.6 psi)	2.4 bar (34.8 psi)	10 bar (145 psi)	11 bar (159.5 psi)	14 bar (203 psi)	24 bar (348 psi)
17 bar (246.5 psi)	20 bar (290 psi)	41 bar (549.5 psi)	140 bar (2030 psi)	140 bar (2030 psi)	175 bar (2538 psi)
Air, oils and other non	corrosive fluids, from - 73 to) + 125°C (1)		I	
1 x 10 ⁶ operating cycle	s (average value, dependin	n on application)			
	s laverage value, dependin	ig on application			
1 tapped entry M20 x 1	.5 mm for ISO cable gland.	Clamping capacity 7 to 13 n	nm		
1 tapped entry for n° 1	3 cable gland, conforming t	o NF C 68-300 (DIN Pg 13.5	 Clamping capacity 9 to 1 	3 mm	
Other versions		Pressure switches with Centre.	alternative tapped cable e	ntries: NPT, etc. Please con	sult our Customer Care

bage 80

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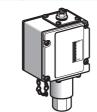
Dimensions page 80



References. characteristics

Electromechanical pressure switches OsiSense XM For control circuits, OsiSense ADW Sizes 69 to 340 bar (1000 to 4930 psi) Adjustable differential, for regulation between 2 thresholds Fluid connection G 3/8 (female)

Pressure switches OsiSense ADW



Piston operated, with drainage hole (1)

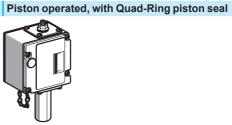
Adjustable range of switchin (Rising pressure)	ng point (PH)		9.3…69 bar (135…1000 psi)	28210 bar (4063045 psi)	38340 bar (5514930 psi)		
References			·	<u></u>	· · · · · · · · · · · · · · · · · · ·		
Switches with 1 CO sing	gle-pole contact						
Electrical connection	With one tapped e M20 x 1.5 mm for I		ADW3M119012	ADW4M119012	ADW7M119012		
	With one tapped entry for n° 13 cable gland		ADW3M129012	ADW4M129012	ADW7M129012		
Weight (kg)			1.880	1	I		
Switches with 2 CO sing	gle-pole contacts	;	1				
Electrical connection	With one tapped entry for n° 13 cable gland		ADW23M129012	ADW24M129012	ADW27M129012		
Weight (kg)			1.880				
Complementary ch	aracteristics	not shown	under general chara	acteristics (page 75)			
Possible differential (subtract from PH to give PB)	1 CO switches	Min.	2.4 bar (34.8 psi)	6.9 bar (100 psi)	8.6 bar (124.7 psi)		
		Max.	9.3 bar (135 psi)	28 bar (406 psi)	38 bar (551 psi)		
	2 CO switches	Min.	3.1 bar (45 psi)	8.6 bar (124.7 psi)	14 bar (203 psi)		
		Max.	14 bar (203 psi)	34 bar (493 psi)	41 bar (594.5 psi)		
Maximum permissible press	sure		690 bar (10,000 psi)				
Fluids controlled			Oils (including synthetic) only, from - 30°C to + 125°C (2) (3)				
Mechanical life			1 x 10 ⁶ operating cycles (average value, depending on application)				
Cable entry, screw terminals	ADW•M119012		1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm				
	ADW•M129012, ADW2••M129012		1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm				

(1) Since it is normal for piston type pressure switches (not incorporating a piston seal) to have a slight oil leakage past the piston type pressure switches (not incorporating a piston sear) to have a slight oil leakage past the piston, a drain hole through the cylinder wall is incorporated. To avoid back pressure, this hole should never be plugged. If for any reason this oil leakage is undesirable, use pressure switches incorporating a Quad-Ring piston seal.
(2) See "Component materials of units in contact with the fluid", page 75.

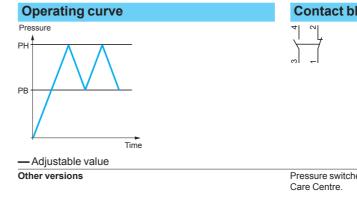
(3) Only for control of group 2 fluids, in accordance with directive 97/23/EEC.

Contact block connections
Pressure switches with alternative tapped cable entries: NPT, etc. Please consult our Customer

Pressure switches OsiSense ADW



Adjustable range of switching point (PH) (Falling pressure)			9.369 bar (1351000 psi)	28…210 bar (406…3045 psi)	38340 bar (5514930 psi)		
References							
Switches with 1 CO sing	gle-pole contact						
Electrical connection	With one tapped e M20 x 1.5 mm for		ADW5M119012	ADW6M119012	-		
	With one tapped e for n° 13 cable gla		ADW5M129012	ADW6M129012	ADW7S1M129012		
Weight (kg)			1.880				
Switches with 2 CO sing	gle-pole contact	S	·				
Electrical connection	With one tapped for n° 13 cable g		ADW25M129012	ADW26M129012	-		
Weight (kg)			1.880	•	-		
Complementary ch	aracteristics	not shown	under general chara	acteristics (page 75)			
Possible differential (subtract from PH to give PB)	1 CO switches	Min./max. at low setting	4.8/6.9 bar (69.6/100 psi)	14/21 bar (203/304.5 psi)	19/25 bar (275.5/362.5 psi		
		Min./max. at low setting	8.6/10 bar (124.7/145 psi)	28/34 bar (406/493 psi)	38/45 bar (551/652.5 psi)		
	2 CO switches	Min./max. at low setting	6.2/7.9 bar (89.9/114.6 psi)	17/24 bar (246.5/348 psi)	22/28 bar (319/406 psi)		
		Min./max. at high setting	10/12 bar (145/174 psi)	34/39 bar (493/565.5 psi)	44/50 bar (638/725 psi)		
Maximum permissible press	sure		690 bar (10,000 psi)				
Fluids controlled			Oils and other fluids, from - 25°C to + 120°C (1) (2)				
Mechanical life			1 x 10 ⁶ operating cycles (average value, depending on application)				
Cable entry, screw terminals	ADW•M119012		1 tapped entry M20 x 1.5 mm for ISO cable gland. Clamping capacity 7 to 13 mm				
	ADW•M129012, ADW2••M12901	2	1 tapped entry for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 13 mm				



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bage 81

- Adjustable value

Other versions

Operating curve

Time

Pressure

PH

PB



Care Centre.

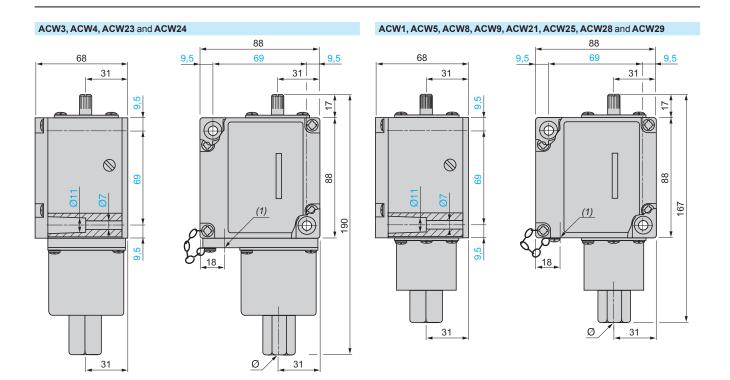


Contact block connections

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

Electromechanical pressure switches

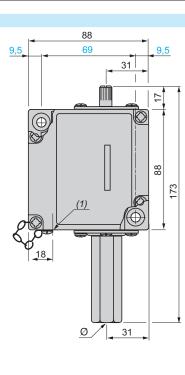
OsiSense XM For control circuits, OsiSense ACW



(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model Ø: G 1/4 (female)

ACW2 and ACW22



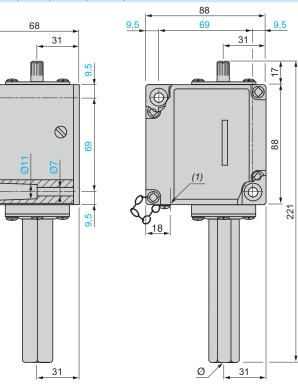


(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model Ø: G 1/4 (female)

> References: pages 76 and 77

(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model Ø: G 1/4 (female)

ACW6, ACW7, ACW10, ACW26, ACW27 and ACW20



(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model Ø: G 1/4 (female)

Characteristics: pages 75 to 77

Telemecanique Sensors

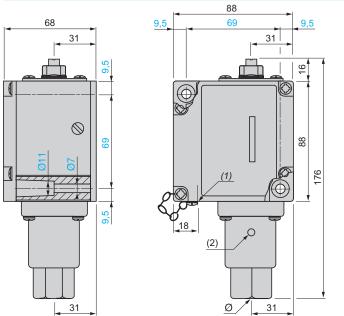
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Electromechanical pressure switches OsiSense XM

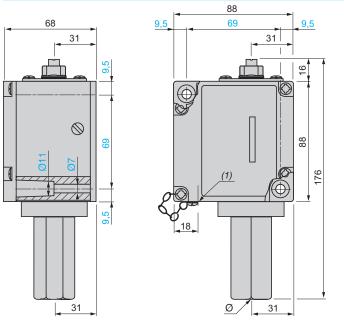
For control circuits, OsiSense ADW

ADW3, ADW4, ADW7, ADW23, ADW24 and ADW27



(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model
(2) Drainage hole, tapped G 1/8 (female)
Ø: G 3/8 (female)

ADW5, ADW6, ADW7S1, ADW25 and ADW26



(1) Tapped entry for n° 13 or ISO M20 cable gland, depending on model Ø: G 3/8 (female)

Characteristics pages 75 to 79



Electromechanical pressure switches

OsiSense XM For control circuits, OsiSense XMX and XMA

Presentation

Pressure switches OsiSense XMX and XMA are switches for control circuits, with an adjustable differential.

They are used to control the pressure of water and air, up to 25 bar.

Equipment fitted to the various models

Location of setting screw

Pressure switches OsiSense XMX have an internal setting screw that is only accessible after removing the cover.

 $\ensuremath{\mathsf{Pressure}}$ switches OsiSense XMA have an external setting screw that is accessible without removing the cover.

Case

Pressure switches OsiSense XMX have a black opaque case.

Pressure switches OsiSense XMA can have a transparent case or a black opaque case.

Setting

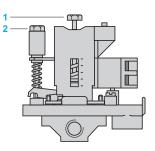
When setting pressure switches XMX or XMA, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting screw-nut 1.

Switching point on falling pressure

The switching point on falling pressure (PB) is set by adjusting screw-nut 2.



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Dimensions: page 87

Telemecanique Sensors

Characteristics

Electromechanical pressure switches OsiSense XM

For control circuits, OsiSense XMX and XMA

Environment characteristics		
Conformity to standards		C€, IEC/EN 60947-5-1
Product certifications		UL, CSA, CCC, EAC
Protective treatment		"ТС"
Ambient air temperature For operation	°C	- 25+ 70 for 6 and 25 bar versions - 25+ 55 for 12 bar version
For storage		- 40+ 70
Fluids controlled	°C	Air, fresh water, sea water: 0+ 70°C for 6 and 25 bar versions 0+ 55°C for 12 bar version
Materials		Case: polycarbonate impregnated with Lexan 500R fibreglass (black opaque cover) or polycarbonate impregnated with Lexan 123 fibreglass (transparent cover) Component materials in contact with fluid: chromated zinc alloy (fluid entry), canvas covered nitrile (diaphragm)
Operating position		All positions
Electric shock protection		Class I conforming to IEC 536
Degree of protection		IP 54 conforming to IEC/EN 60529
Operating rate	Op. cycles/h	600
Repeat accuracy		< 3.5%
Fluid connection		G 1/4 or 4 x G 1/4 (BSP female) conforming to NF E 03-005, ISO 228
Electrical connection		Terminals 2 tapped entries for n° 13 (DIN Pg 13.5) cable gland
Contact block characteristics		
Rated operational characteristics		∼ 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)
Rated insulation voltage	v	Ui = 500 conforming to IEC/EN 60947-1
Rated impulse withstand voltage	kV	U imp = 6 conforming to IEC/EN 60947-1
Type of contacts		1 CO single-pole contact, snap action
Terminal referencing		Conforming to CENELEC EN 50013
Short-circuit protection		10 A cartridge fuse type gG (gl)
Connection		Screw clamp terminals Minimum clamping capacity: 1 x 1 mm ² Maximum clamping capacity: 2 x 2.5 mm ²
Electrical durability		AC supply 50/60Hz, Ith = 10 A Inductive circuit, utilisation category AC-15, 3 A/240 V: 1 million operating cycles

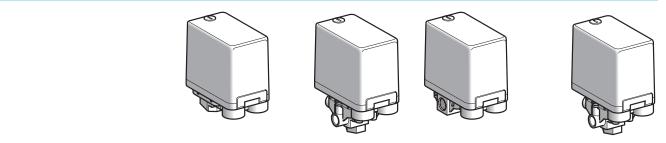


References, characteristics

Electromechanical pressure switches OsiSense XMX for control circuits

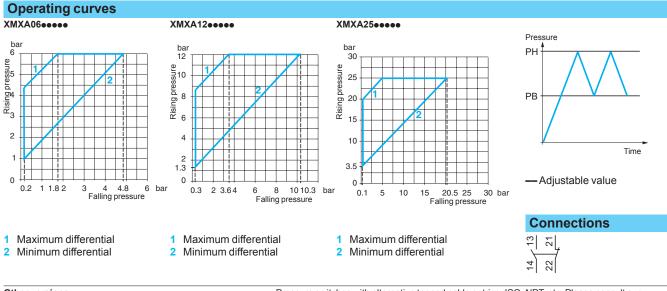
OsiSense XMX for control circuits Sizes 6 to 25 bar (87 to 362.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

Pressure switches OsiSense XMX (internal setting screw)



Adjustable range of switching point (PH) (Rising pressure)		1…6 bar (14.5…87 psi)	1.312 bar (18.85174 psi)	3.525 bar (50.75362.5 psi)	16 bar (14.587 psi)	1.312 bar (18.85174 psi)	3.525 bar (50.75362.5 psi)	
Fluid connection		G 1/4 (female)			4 x G 1/4 (female)		
References								
Switches with bla	ck opaque cover							
Fluids controlled	Air, fresh water, sea water (1)	XMXA06L2135	XMXA12L2135	XMXA25L2135	XMXA06L2435	XMXA12L2435	XMXA25L2435	
Weight (kg)		0.430		0.650	0.430		0.650	
Complementa	ry characteristic	s not shown	under gener	al characteris	stics (page 83)			
Possible differential (subtract from PH	Min. at low setting	0.8 bar (11.6 psi)	1 bar (14.5 psi)	3.4 bar (49.3 psi)	0.8 bar (11.6 psi)	1 bar (14.5 psi)	3.4 bar (49.3 psi)	
to give PB)	Min. at high setting	1.2 bar (17.4 psi)	1.7 bar (24.6 psi)	4.5 bar (65.2 psi)	1.2 bar (17.4 psi)	1.7 bar (24.6 psi)	4.5 bar (65.2 psi)	
	Max. at high setting	4.2 bar (60.9 psi)	8.4 bar (121.8 psi)	20 bar (290 psi)	4.2 bar (60.9 psi)	8.4 bar (121.8 psi)	20 bar (290 psi)	
Maximum permissible pressure	Per cycle	7.5 bar (108.7 psi)	15 bar (217.5 psi)	31.25 bar (453.1 psi)	7.5 bar (108.7 psi)	15 bar (217.5 psi)	31.25 bar (453.1 psi)	
	Accidental	13.5 bar (195.7 psi)	27 bar (391.5 psi)	56.25 bar (815.6 psi)	13.5 bar (195.7 psi)	27 bar (391.5 psi)	56.25 bar (815.6 psi)	
Destruction pressure	•	30 bar (435 psi)		100 bar (1450 psi)	30 bar (435 psi)		100 bar (1450 psi)	
Mechanical life		1 x 10 ⁶ operating cycles						
Cable entry		2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)						
Pressure switch type	1	Diaphragm						

(1) Component materials of units in contact with the fluid, see page 83.



Other versions

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

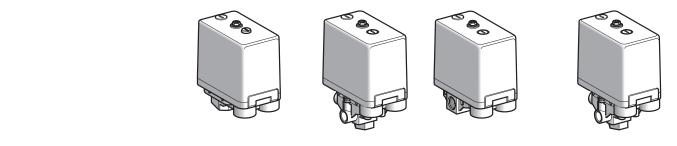
Acces	sories:	Dimensions:	
page	86	page 87	
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References, characteristics

Electromechanical pressure switches OsiSense XMA for control circuits

Sizes 6 to 25 bar (87 to 362.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 1 CO single-pole contact

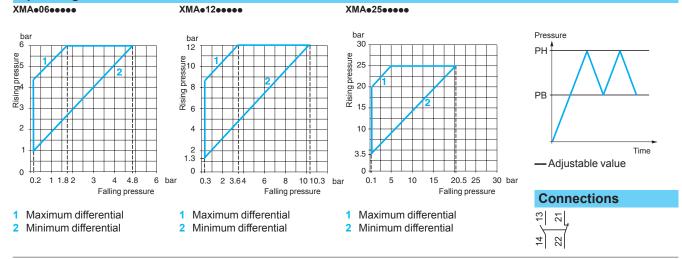
Pressure switches OsiSense XMA (external setting screw)



	Adjustable range of switching point (PH)		1.312 bar	3.525 bar	16 bar	1.312 bar	3.525 bar	
(Rising pressure)			(14.587 psi) (18.85174 psi) (50.75362.5 p				(50.75362.5 psi)	
Fluid connection		G 1/4 (female)			4 x G 1/4 (female)		
References								
Switches with blac	k opaque cover							
Fluids controlled	Air, fresh water, sea water <i>(1)</i>	XMAH06L2135	XMAH12L2135	XMAH25L2135	XMAH06L2435	XMAH12L2435	XMAH25L2435	
Switches with tran	sparent cover							
Fluids controlled	Air, fresh water, sea water (1)	XMAV06L2135	XMAV12L2135	XMAV25L2135	XMAV06L2435	XMAV12L2435	XMAV25L2435	
Weight (kg)		0.430		0.650	0.430		0.650	
Complementar	y characteristic	s not shown	under genera	al characteris	tics (page 83)			
Possible differential (subtract from PH	Min. at low setting	0.8 bar (11.6 psi)	1 bar (14.5 psi)	3.4 bar (49.3 psi)	0.8 bar (11.6 psi)	1 bar (14.5 psi)	3.4 bar (49.3 psi)	
to give PB)	Min. at high setting	1.2 bar (17.4 psi)	1.7 bar (24.6 psi)	4.5 bar (65.2 psi)	1.2 bar (17.4 psi)	1.7 bar (24.6 psi)	4.5 bar (65.2 psi)	
	Max. at high setting	4.2 bar (60.9 psi)	8.4 bar (121.8 psi)	20 bar (290 psi)	4.2 bar (60.9 psi)	8.4 bar (121.8 psi)	20 bar (290 psi)	
Maximum permissible pressure	Per cycle e	7.5 bar (108.7 psi)	15 bar (217.5 psi)	31.25 bar (453.1 psi)	7.5 bar (108.7 psi)	15 bar (217.5 psi)	31.25 bar (453.1 psi)	
	Accidental	13.5 bar (195.7 psi)	27 bar (391.5 psi)	56.25 bar (815.6 psi)	13.5 bar (195.7 psi)	27 bar (391.5 psi)	56.25 bar (815.6 psi)	
Destruction pressure		30 bar (435 psi)	30 bar (435 psi)		30 bar (435 psi)		100 bar (1450 psi)	
Mechanical life		1 x 10 ⁶ operating cycles						
Cable entry		2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)						
Pressure switch type)	Diaphragm						
		(1) Component ma	terials of units in coi	ntact with the fluid.	see page 83.			

erials of units in contact with the fluid, see page 83

Operating curves



Other versions

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

Accessories: page 86	Dimensions: page 87		
		Telemecanique	85

Sensors



Electromechanical pressure switches OsiSense XMX and XMA for control circuits

Accessories and replacement parts

	References	5		
	Description		Reference	Weight kg
	Fixing bracket		XMAZL001	0.035
XMAZL001		nent knob, Ø 36 mm nt screws to facilitate setting	XMLZL003	0.010
XMLZL003	13P cable gland	With anti pull-out ring (for cable Ø 69 mm)	DE9PM1201	0.005
Cero Contraction of the second		Without anti pull-out ring (for cable Ø 69 mm)	DE9PM1202	0.005
DE9PM1201		With anti pull-out ring (for cable Ø 912.5 mm)	DE9PM1203	0.005
	Description	For pressure switch	Reference	Weight kg
DE9PM1202	Diaphragms	Size 6 bar	XMPZ31	0.005
		Size 25 bar	XMPZ33	0.005

XMPZ3•

page 83

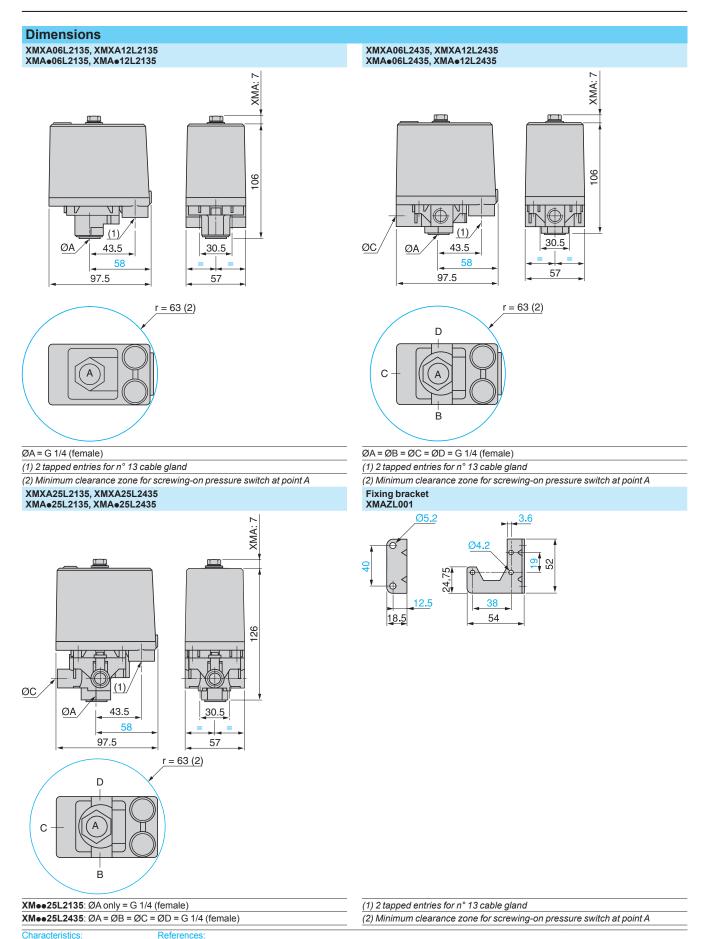
page 84

Electromechanical pressure switches

OsiSense XM

For control circuits, OsiSense XMX and XMA

Accessories and replacement parts







Electromechanical pressure switches

OsiSense XM For power circuits, OsiSense FTG, FSG and FYG

Presentation

Pressure switches OsiSense FTG, FSG and FYG are switches for power circuits. They are used to control the pressure of water, up to 10.5 bar.

2 types of product are available:

- pressure switches OsiSense FTG with fixed differential, for detection of a single threshold,

- pressure switches OsiSense FSG and FYG with an adjustable differential, for regulation between 2 thresholds.

For specific needs, these 2 types of product can be supplied in IP 65 versions, thus ensuring a higher degree of protection. They feature 2 cable entries, fitted with cable gland, and are referenced $F \bullet G \bullet NE$.

Setting

Pressure switches with fixed differential (FTG)

Only the switching point on rising pressure is adjustable.

Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting screw-nut 1.

Switching point on falling pressure

The switching point on falling pressure (PB) is not adjustable. The difference between the tripping and resetting points of the contact is the natural differential of the switch (contact differential, friction, etc.).

Pressure switches with adjustable differential (FSG and FYG)

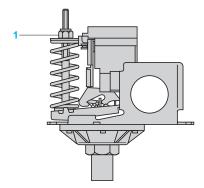
When setting the pressure switch, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

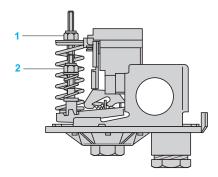
Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting screw-nut 1.

Switching point on falling pressure

The switching point on falling pressure (PB) is set by adjusting screw-nut 2.





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Dimensions: page 93

Telemecanique Sensors

Characteristics

Electromechanical pressure switches OsiSense XM

OsiSense XM For power circuits, OsiSense FTG, FSG and FYG

Environment characteristi		1				
Pressure switch type			FTG● FTG●NE		FSGe and FYGe FSGeNE and FYG	BeNE
Conformity to standards			C€, IEC/EN 60730		1000nt and 110	
Protective treatment			Standard version: "	TC"		
Ambient air temperature		°C	For operation: 0+	45. For storage: - 30.	+ 80	
Fluids controlled			Fresh water, sea wa	ater (0+ 70°C)		
Naterials				resistant to mechanic als in contact with fluic		ed steel, nitrile
Operating position			All positions			
Electric shock protection			Class I conforming	to IEC 536		
Degree of protection conforming to IEC/EN 60529	FTG●, FSG● and FYG●		IP 20			
J.	FTG•NE, FSG•NE and FYG•NE		IP 65			
Operating rate		Op. cycles/h	600			
Repeat accuracy			< 2%			
Fluid connection	F●G 2, FYG●2		G 1/4 (BSP female)) conforming to NF E (03-005, ISO 228	
	F●G 9		R 1/4 (BSP male) conforming to NF E 03-004, ISO 7			
Electrical connection FTGe, FSGe and FYGe FTGeNE, FSGeNE and FYGeNE			Terminals. 2 cable entries, with grommet			
			Terminals. 2 entries incorporating 13P cable gland (DIN Pg 13.5)			
Contact block characteris	tics					
Rated operational characteristics			Ie = 10 A, Ue = \sim 2	50 V conforming to El	N 60730-1	
Power ratings of controlled motors	Voltage		\sim 2-pole 1-phase	\sim 2-pole 3-phase	\sim 2-pole 1-phase	\sim 2-pole 3-phase
	110 V		0.75 kW (1 HP)	1.1 kW (1.5 HP)	0.75 kW (1 HP)	1.1 kW (1.5 HP)
	230 V		1.1 kW (1.5 HP)	1.5 kW (2 HP)	1.5 kW (2 HP)	2.2 kW (3 HP)
	400 V		1.5 kW (2 HP)	1.5 kW (2 HP)	1.5 kW (2 HP)	2.2 kW (3 HP)
Rated insulation voltage		V	Ui = 500			
conforming to IEC/EN 60947-1 Rated impulse withstand voltage		kV	U imp = 6			
conforming to IEC/EN 60947-1 Type of contacts			1 2-pole 2 NC (4 terminal) contact, snap action			
Short-circuit protection			20 A cartridge fuse	type gG		
Connection			Screw clamp term Minimum clamping	inals. g capacity: 1 x 1 mm	² , max: 2 x 2 mm ²	
Electrical durability at an operating rate of 600 operating cycles/hour		Op. cycles	40 000		100 000	



References, characteristics

Electromechanical pressure switches

OsiSense XM

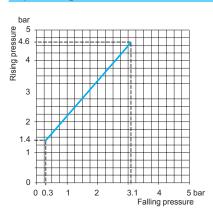
For power circuits, OsiSense FTG

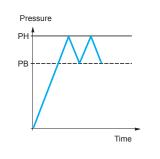
Size 4.6 bar (66.7 psi), fixed differential, for detection of a single threshold. Switches with 2-pole 2 NC contact. Degree of protection IP 20 or IP 65

Fluid connection		G 1/4 (female)	R 1/4 (male)	G 1/4 (female)	R 1/4 (male)	
Adjustable range of switching (Rising pressure)	g point (PH)	1.44.6 bar (20.366	5.7 psi)			
Degree of protection conforming to IEC/EN 60529		IP 20		IP 65		
References						
Fluids controlled	Fresh water, sea water, from 0°C to + 70°C <i>(1)</i>	FTG2	FTG9	FTG2NE	FTG9NE	
Weight (kg)		0.340	^		^	
Complementary cha	racteristics not shown	under general o	characteristics (page 89)		
Natural differential (subtract from PH to give PB)	At low setting	1.1 bar (15.95 psi)				
	At middle setting	1.3 bar (18.85 psi)				
	At high setting	1.5 bar (21.75 psi)				
Maximum permissible pressure	Per cycle	5.75 bar (83.38 psi)				
	Accidental	8 bar (116 psi)				
Destruction pressure		20 bar (290 psi)				
Mechanical life		4 x 10 ⁵ operating cycles	S			
Cable entry		2 cable entries, with gro	ommet	2 entries with 13P cable (DIN Pg 13.5)	e gland	
Clamping capacity		-		9 to 13 mm		
Pressure switch type		Diaphragm				

(1) Component materials of units in contact with the fluid, see page 89.

Operating curves





— Adjustable value



Connections

Dimensions:

References, characteristics

Electromechanical pressure switches

OsiSense XM

For power circuits, OsiSense FSG

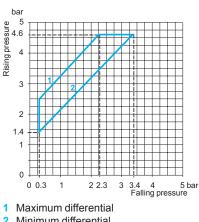
Size 4.6 bar (66.7 psi), adjustable differential, for regulation between 2 thresholds. Switches with 2-pole 2 NC contact. Degree protection IP 20 or IP 65

Fluid connection		G 1/4 (female)	R 1/4 (male)	G 1/4 (female)	R 1/4 (male)	
Adjustable range of switching (Rising pressure)	g point (PH)	1.44.6 bar (20.366	6.7 psi)			
Degree of protection conforming to IEC/EN 60529		IP 20		IP 65		
References						
Fluids controlled	Fresh water, sea water, from 0°C to + 70°C <i>(1)</i>	FSG2	FSG9	FSG2NE (2)	FSG9NE	
Weight (kg)		0.340	*			
Complementary cha	racteristics not shown	under general o	haracteristics (page 89)		
Possible differential (subtract from PH to give PB)	Max. at low setting	2.1 bar (30.45 psi)	, , , , , , , , , , , , , , , , , , ,			
	Max. at middle setting	2.2 bar (31.9 psi)				
	Max. at high setting	2.3 bar (33.35 psi)				
	Min. at low setting	1 bar (14.5 psi)				
	Min. at middle setting	1.1 bar (15.95 psi)				
	Min. at high setting	1.2 bar (17.4 psi)				
Maximum permissible pressure	Per cycle	5.75 bar (83.38 psi)				
	Accidental	8 bar (116 psi)				
Destruction pressure		20 bar (290 psi)				
Mechanical life		1 x 10 ⁶ operating cycle	S			
Cable entry		2 cable entries, with gro	ommet	2 entries with 13P cabl (DIN Pg 13.5)	e gland	
Clamping capacity		-		9 to 13 mm		
Pressure switch type		Diaphragm		· · · · · · · · · · · · · · · · · · ·		
(1) Component materials of unit	s in contact with the fluid see page	80				

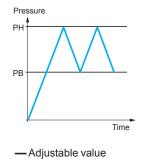
(1) Component materials of units in contact with the fluid, see page 89.

(2) Variant: for a G 3/8 female fluid entry that pivots throughout 360°, select the FSG2NEG.

Operating curves



2 Minimum differential









References, characteristics

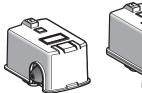
Electromechanical pressure switches

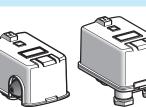
OsiSense XM

For power circuits, OsiSense FYG Sizes 7 and 10.5 bar (101.5 and 152.3 psi), adjustable differential, for regulation between 2 thresholds. Switches with 2-pole 2 NC contact. Degree of protection IP 20 or IP 65

Fluid connectio	n
-----------------	---

G 1/4 (female)





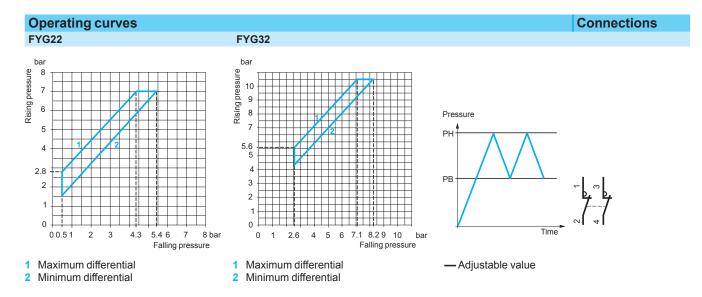
			-		-
Adjustable range of switching point (PH) (Rising pressure)		2.87 bar (40.6	2.87 bar (40.6101.5 psi)		1.2…152.3 psi)
Degree of protection conforming to EN/IEC 605	29	IP 20	IP 65	IP 20	IP 65
References					
Fluids controlled	Fresh water, sea water, from 0°C to + 70°C <i>(1)</i>	FYG22 (2)	FYG22NE	FYG32 (3)	FYG32NE
Weight (kg)		0.340	<u>^</u>	<u> </u>	<u>^</u>

Complementary cha	aracteristics not shown	under general characteristics (page 89)	
Possible differential (subtract from PH to give PB)	Max. at low setting	2.3 bar (33.35 psi)	3 bar (43.5 psi)	
	Max. at middle setting	2.5 bar (36.25 psi)	3.2 bar (46.4 psi)	
	Max. at high setting	2.7 bar (39.15 psi)	3.4 bar (49.3 psi)	
	Min. at low setting	1.2 bar (17.4 psi)	1.9 bar (27.55 psi)	
	Min. at middle setting	1.4 bar (20.3 psi)	2.1 bar (30.45 psi)	
	Min. at high setting	1.6 bar (23.2 psi)	2.3 bar (33.35 psi)	
Maximum permissible pressure	Per cycle	8.75 bar (126.9 psi)	13 bar (188.5 psi)	
	Accidental	15 bar (217.5 psi)	15 bar (217.5 psi)	
Destruction pressure		20 bar (290 psi)	20 bar (290 psi)	
Mechanical life		1 x 10 ⁶ operating cycles		
Cable entry		2 cable entries, with grommet		
Pressure switch type		Diaphragm		

(1) Component materials of units in contact with the fluid, see page 89.

(2) Variant: for a 2.8 to 7 bar, IP 20, pressure switch with R 1/4 (male) fluid entry, select the FYG29.

(3) Variant: for a 5.6 to 10.5 bar, IP 20, pressure switch with R 1/4 (male) fluid entry, select the FYG39.

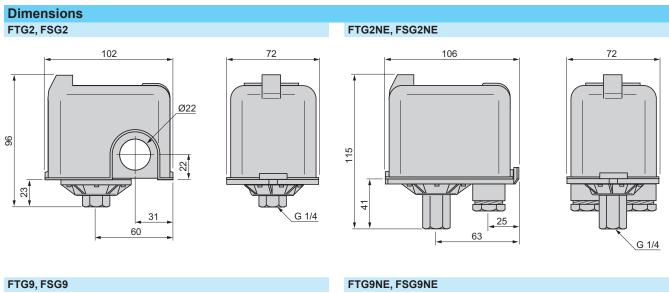


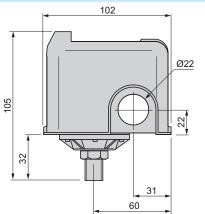
Dimensions: page 93

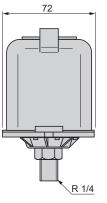
Telemecanique Sensors

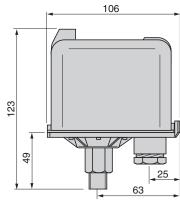
Electromechanical pressure switches OsiSense XM

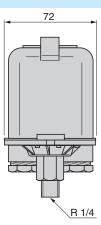
For power circuits, OsiSense FTG, FSG and FYG



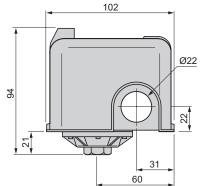


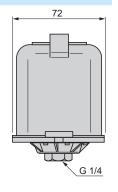




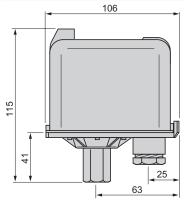


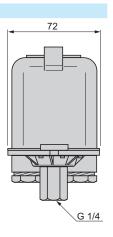






FYG22NE, FYG32NE





Characteristics: page 89	References: pages 90 to 92		
		(E) Telemecanique	

Sensors

Presentation

Electromechanical pressure switches

OsiSense XM For power circuits, OsiSense XMP

Presentation

Pressure switches OsiSense XMP are switches for power circuits (direct switching), with an adjustable differential.

They are used to control the pressure of water and air, up to 25 bar.

Equipment fitted to the various models

Case

Pressure switches OsiSense XMP, depending on the model, include:

- 3 types of case:
- bare case,
- □ case with On/Off knob (black): used as a switch for starting and stopping the installation,
- case with reset knob (yellow): necessary when the safety requirements of the system include tripping in the event of overpressure. Resetting is not automatic on return to normal pressure, and it can only be achieved by manually turning the "Reset" knob.
- 2 degrees of protection:
- □ IP 54,
- □ IP 65.

Decompression valve

Depending on the model, 2 types of decompression valve can be fitted to pressure switches OsiSense XMP:

■ Straight, instant connection, decompression valve (connection by Ø 6 mm plastic tube).

Straight, olive connection, decompression valve (connection by Ø 6 mm plastic or metal tube).

Setting

When setting XMP pressure switches, adjust the switching point on rising pressure (PH) first and then the switching point on falling pressure (PB).

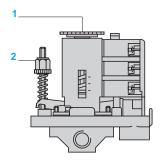
Switching point on rising pressure

The switching point on rising pressure (PH) is set by adjusting the screw-nut or knurled knob 1.

Tighten either the nut or knurled knob 1 to increase the high point switching value.

Switching point on falling pressure

The switching point on falling pressure is set by adjusting screw-nut 2. Tighten nut 2 to reduce the low point switching value (increase in differential).





Characteristics

Electromechanical pressure switches OsiSense XM

OsiSense XM For power circuits, OsiSense XMP

Environment characteristics				
Conformity to standards		CE, IEC/EN 60947-4-1		
Product certifications		EAC		
Ambient air temperature	٥°	For operation: - 25+ 70 For storage: - 40+ 70		
Fluids controlled		Air, fresh water, sea wate	r (0+ 70°C)	
Materials		Case: polyamide impregr Component materials in o canvas covered nitrile (di	contact with fluid: chroma	ted zinc alloy (fluid entr
Operating position		All positions		
Vibration resistance		3 gn (10500 Hz) confor	ming to IEC 60068-2-6	
Shock resistance		50 gn, conforming to IEC	60068-2-27	
Electric shock protection		Class I conforming to IEC 60536		
Degree of protection		IP 54 conforming to IEC/	EN 60529 or IP 65 for univ	versal model
Operating rate	Op. cycles/h	≤ 600		
Repeat accuracy		< 3.5%		
Fluid connection		G 1/4, 4 x G 1/4 or G 3/8 (BSP female) conforming to NF E 03-005, ISO 22		
Electrical connection		2 tapped entries for n° 13 (DIN Pg 13.5) cable gland		
Contact block characteristics		1		
Rated insulation voltage	v	Ui = 500 conforming to IE	C/EN 60947-1	
Rated impulse withstand voltage	v	U imp = 6 kV conforming	to IEC/EN 60947-1	
Type of contacts		One 2-pole 2 NC or 3-pol	e 3 NC contact, snap acti	on
Resistance across terminals	mΩ	≤ 25 conforming to NF C	93-050 method A or IEC 2	255-7 category 3
Terminal referencing		Conforming to CENELEC	CEN 50013	
Short-circuit protection		Cartridge fuse type Am		
Connection		Screw clamp terminals. Minimum clamping capacity: 2 x 4 mm ²		
Electrical durability		Power	Number of operating cy	cles
Operating rate: 600 operating cycles/hour		kW	\sim 400 V, 3-phase	\sim 230 V, 3-phase
Load factor: 0.4		1.5	1 000 000	600 000
			700 000	
		2.2	700000	-



References. characteristics

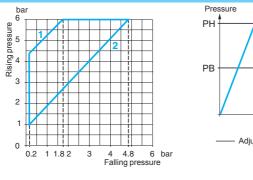
Electromechanical pressure switches

OsiSense XMP, IP 54 Size 6 bar (87 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2-pole 2 NC or 3-pole 3 NC contact

Fluid connection		G 1/4 (female)			
Adjustable range of switching (Rising pressure)	g point (PH)	16 bar (14.587 psi)			
Type of contact		2-pole 2 NC	3-pole 3 NC		
References (1)					
Switches without decom	pression valve				
Bare case 1	-	XMPA06B2131	XMPA06C2131		
Case with reset knob 2		XMPB06B2131	-		
Case with On/Off knob 2		XMPC06B2131	XMPC06C2131		
Weight (kg)		0.430			
Switches with straight de	ecompression valve, inst	ant connection			
Bare case 1		XMPD06B2131	XMPD06C2131		
Case with On/Off knob 2		XMPE06B2131	XMPE06C2131		
Weight (kg)		0.450			
Complementary cha	aracteristics not sho	own under general charact	eristics (page 95)		
Possible differential	Min. at low setting	0.8 bar (11.6 psi)			
(subtract from PH to give PB)	Min. at high setting	1.2 bar (17.4 psi)			
	Max. at high setting	4.2 bar (60.9 psi)			
Destruction pressure		30 bar (435 psi)	30 bar (435 psi)		
Mechanical life		1 million operating cycles			
Cable entry		2 entries tapped for n° 13 cable g	2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)		
Pressure switch type		Diaphragm	Diaphragm		
		(1) References for individually pac To order, add the letter C to the	kaged switches. Also available packaged in lots of 10. reference selected from above. Example: reference for lot		

To order, add the letter C to the reference selected from above. Example: reference for of 10 pressure switches XMPA06B2131 in one package becomes XMPA06B2131C.

Operating curves



1 Maximum differential 2 Minimum differential



Time ----- Adjustable value

1...6 bar (14.5...87 psi) 3-pole 3 NC 2-pole 2 NC References Switches without decompression valve XMPA06B224 XMPB06B224 XMPC06B224 0.430 Switches with straight decompression valve, instant connection XMPD06B224 XMPE06C2431 -0.450

Complementary characteristics not shown	Complementary characteristics not shown under general characteristics (page 95)		
0.8 bar (11.6 psi)			
1.2 bar (17.4 psi)			
4.2 bar (60.9 psi)			
30 bar (435 psi)			
1 million operating cycles			
2 entries tapped for n° 13 cable gland, conforming	2 entries incorporating n° 13 plastic cable gland (DIN Pg 13.5)		
to NF C 68-300 (DIN Pg 13.5)	Clamping capacity 9 to 13 mm		
Diaphragm			
Other versions	Pressure switches not listed above, comprising the equipment proposed for the choice of reference. Please consult our Customer Care Centre.		

Terminal connections

4 x G 1/4 (female)

XMP

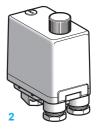
Accesso page 10	
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Accessories page 104

Telemecanique Sensors

G 3/8 (female)





	3-pole 3 NC	
2	XMPA06C2242	
2	-	
2	XMPC06C2242	
2	XMPD06C2242	
	XMPE06C2242	



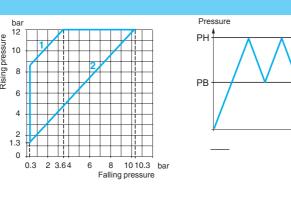
References. characteristics (continued)

Electromechanical pressure switches

OsiSense XMP, IP 54 Size 12 bar (174 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2-pole 2 NC or 3-pole 3 NC contact

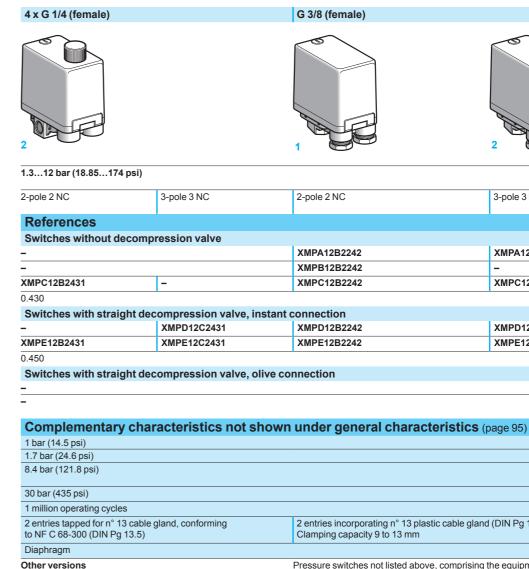
Fluid connection		G 1/4 (female)	G 1/4 (female)			
Adjustable range of switching Rising pressure)	g point (PH)	1.312 bar (18.85174 psi)				
Type of contact		2-pole 2 NC	3-pole 3 NC			
References (1)			· · · · · · · · · · · · · · · · · · ·			
Switches without decom	pression valve					
Bare case 1		XMPA12B2131	XMPA12C2131			
Case with reset knob 2		XMPB12B2131	-			
Case with On/Off knob 2		XMPC12B2131	XMPC12C2131			
Weight (kg)		0.430				
Switches with straight de	compression valve, ins	tant connection	connection			
Bare case 1		XMPD12B2131	XMPD12C2131			
Case with On/Off knob 2		XMPE12B2131	XMPE12C2131			
Weight (kg)		0.450	0.450			
Switches with straight de	compression valve, oliv	ve connection				
Case with On/Off knob 2		XMPR12B2131	XMPR12C2131			
Weight (kg)		0.450	0.450			
Complementary cha	racteristics not she	own under general charact	eristics (page 95)			
Possible differential	Min. at low setting	1 bar (14.5 psi)				
(subtract from PH to give PB)	Min. at high setting	1.7 bar (24.6 psi)				
	Max. at high setting	8.4 bar (121.8 psi)				
Destruction pressure		30 bar (435 psi)	30 bar (435 psi)			
Mechanical life		1 million operating cycles				
Cable entry		2 entries tapped for n° 13 cable g	2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)			
Pressure switch type		Diaphragm	Diaphragm			
		To order, add the letter C to the	kaged switches. Also available packaged in lots of 10. reference selected from above. Example: reference for lot 12B2131 in one package becomes XMPA12B2131C.			

Operating curves



Time

1 Maximum differential 2 Minimum differential

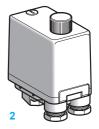


Terminal connections



ccesso ige 10	Dimensions: page 105	
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Accessories Dim page 104 page 105



	3-pole 3 NC
	3-pole 3 NC
42	XMPA12C2242
42	-
42	XMPC12C2242
42	XMPD12C2242
42	XMPE12C2242

2 entries incorporating n° 13 plastic cable gland (DIN Pg 13.5) Clamping capacity 9 to 13 mm

Pressure switches not listed above, comprising the equipment proposed for the choice of reference. Please consult our Customer Care Centre.



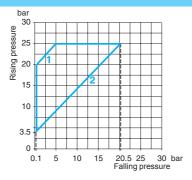


References, characteristics (continued)

Electromechanical pressure switches OsiSense XMP, IP 54 Size 25 bar (362.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2-pole 2 NC or 3-pole 3 NC contact

Fluid connection		G 1/4 (female)			
Adjustable range of switching (Rising pressure)	g point (PH)	3.525 bar (50.75362.5 psi)			
Type of contact		2-pole 2 NC			
References					
Switches without decom	pression valve				
Bare case 1		XMPA25B2131			
Case with reset knob 2		XMPB25B2131			
Case with On/Off knob 2		XMPC25B2131			
Weight (kg)		0.650			
Switches with straight de	compression valve, olive co	nnection			
Case with On/Off knob 2		XMPR25B2131			
Weight (kg)		0.670			
Complementary cha	racteristics not shown	under general characteristics (page 95)			
Possible differential	Min. at low setting	3.4 bar (49.3 psi)			
(subtract from PH to give PB)	Min. at high setting	4.5 bar (65.2 psi)			
	Max. at high setting	20 bar (290 psi)			
Destruction pressure		100 bar (1450 psi)			
Mechanical life		1 million operating cycles			
Cable entry		2 entries tapped for n° 13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)			
Pressure switch type		Diaphragm			

Operating curves



1 Maximum differential 2 Minimum differential

G 1/4 (female)	
	2
3.525 bar (50.75362.5 psi)	
3-pole 3 NC	
References	
	VO
Switches without decompression val	ve
•	ve
XMPA25C2131	Ve
XMPA25C2131 - XMPC25C2131	Ve
XMPA25C2131 - XMPC25C2131	
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio	
XMPA25C2131 - XMPC25C2131 0.650	
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131	n valve, olive connection
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670	n valve, olive connection
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi) 4.5 bar (65.2 psi)	n valve, olive connection
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi)	n valve, olive connection
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi) 4.5 bar (65.2 psi)	n valve, olive connection
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi) 4.5 bar (65.2 psi) 20 bar (290 psi)	n valve, olive connection
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi) 4.5 bar (65.2 psi) 20 bar (290 psi) 100 bar (1450 psi)	n valve, olive connection cs not shown under g
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi) 4.5 bar (65.2 psi) 20 bar (290 psi) 100 bar (1450 psi) 1 million operating cycles	n valve, olive connection cs not shown under g
XMPA25C2131 - XMPC25C2131 0.650 Switches with straight decompressio XMPR25C2131 0.670 Complementary characteristic 3.4 bar (49.3 psi) 4.5 bar (65.2 psi) 20 bar (290 psi) 100 bar (1450 psi) 1 million operating cycles 2 entries tapped for n° 13 cable gland, conform	n valve, olive connection cs not shown under g

Terminal connections

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100	E Telemecanique Sensors



eneral characteristics (page 95)
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tches not listed above, comprising the equipment proposed for the choice Please consult our Customer Care Centre.

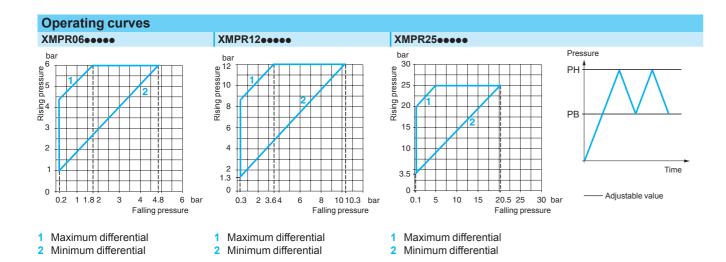


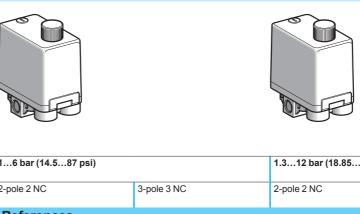
References, characteristics (continued)

Electromechanical pressure switches

OsiSense XMP, IP 65 Sizes 6 to 25 bar (87 to 362.5 psi) Adjustable differential, for regulation between 2 thresholds Switches with 2-pole 2 NC or 3-pole 3 NC contact

Fluid connection		G 1/4 (female)					
Adjustable range of switching point (PH) (Rising pressure)		16 bar (14.587 psi)		1.312 bar (18.85174 psi)		3.525 bar (50.75362.5 psi)	
Type of contact		2-pole 2 NC	3-pole 3 NC	2-pole 2 NC	3-pole 3 NC	2-pole 2 NC	3-pole 3 NC
References		I		1		1	
Switches with stra	aight decompressio	n valve, olive co	nnection				
Case with On/Off knob		XMPR06B2133	XMPR06C2133	XMPR12B2133	XMPR12C2133	XMPR25B2133	XMPR25C2133
Weight (kg)		0.450		0.670			
Complementa	ry characteristic	s not shown	under gener	al characteri	stics (page 95)		
Possible differential	Min. at low setting	0.8 bar (11.6 psi)		1 bar (14.5 psi)		3.4 bar (49.3 psi)	
(subtract from PH	Min. at high setting	1.2 bar (17.4 psi)		1.7 bar (24.6 psi)		4.5 bar (65.2 psi)	
to give PB)	Max. at high setting	4.2 bar (60.9 psi)		8.4 bar (121.8 psi)		20 bar (290 psi)	
Destruction pressure)	30 bar (435 psi) 100 bar (1450 psi))
Mechanical life		1 million operating	cycles				
Cable entry		2 entries tapped for	or n° 13 cable gland	, conforming to NF (C 68-300 (DIN Pg 13	3.5)	
Adjustment of high setting point (PH)		By screw-nut					
Pressure switch type		Diaphragm					





16 bar (14.587 psi)		1.312 bar (18.85	1.3…12 bar (18.85…174 psi)		3.525 bar (50.75362.5 psi)	
2-pole 2 NC	3-pole 3 NC	2-pole 2 NC	3-pole 3 NC	2-pole 2 NC	3-pole 3 NC	
References		I				
Switches with strai	ght decompression valve, o	live connection				
XMPR06B2433	XMPR06C2433	XMPR12B2433	XMPR12C2433	XMPR25B2433	XMPR25C2433	
0.450	•		•	0.670	•	
Complementer	v abaractariatica not al		labaraatariatiaa	(a		
	y characteristics not sl		Il characteristics			
0.8 bar (11.6 psi)		1 bar (14.5 psi)		3.4 bar (49.3 psi)		
1.2 bar (17.4 psi)		1.7 bar (24.6 psi)		4.5 bar (65.2 psi)		
4.2 bar (60.9 psi)		8.4 bar (121.8 psi)	8.4 bar (121.8 psi)		20 bar (290 psi)	
30 bar (435 psi)				100 bar (1450 psi)		
1 million operating cycle	es					
2 entries tapped for n° 1	3 cable gland, conforming to NF C	68-300 (DIN Pg 13.5)				
By screw-nut						
Diaphragm						

16 bar (14.587 psi)		1.312 bar (18.85	1.3…12 bar (18.85…174 psi)		3.5…25 bar (50.75…362.5 psi)	
2-pole 2 NC	3-pole 3 NC	2-pole 2 NC	3-pole 3 NC	2-pole 2 NC	3-pole 3 NC	
References						
Switches with strai	ight decompression valve, o	live connection				
XMPR06B2433	XMPR06C2433	XMPR12B2433	XMPR12C2433	XMPR25B2433	XMPR25C2433	
0.450	·			0.670		
Complementar	y characteristics not s	hown under genera	l characteristic	S (page 95)		
0.8 bar (11.6 psi)	•	1 bar (14.5 psi)		3.4 bar (49.3 psi)		
1.2 bar (17.4 psi)		1.7 bar (24.6 psi)	1.7 bar (24.6 psi)		4.5 bar (65.2 psi)	
4.2 bar (60.9 psi)		8.4 bar (121.8 psi)	8.4 bar (121.8 psi)		20 bar (290 psi)	
30 bar (435 psi)					100 bar (1450 psi)	
1 million operating cycl	es			· ·		
2 entries tapped for n°	13 cable gland, conforming to NF C	68-300 (DIN Pg 13.5)				
By screw-nut						
Diaphragm						
Other versions			ot listed above, compris consult our Customer C		osed for the choice	

Terminal connections

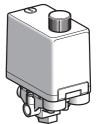
4 x G 1/4 (female)



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Sensors



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Electromechanical pressure switches OsiSense XM

OsiSense XM For power circuits, OsiSense XMP Accessories and replacement parts

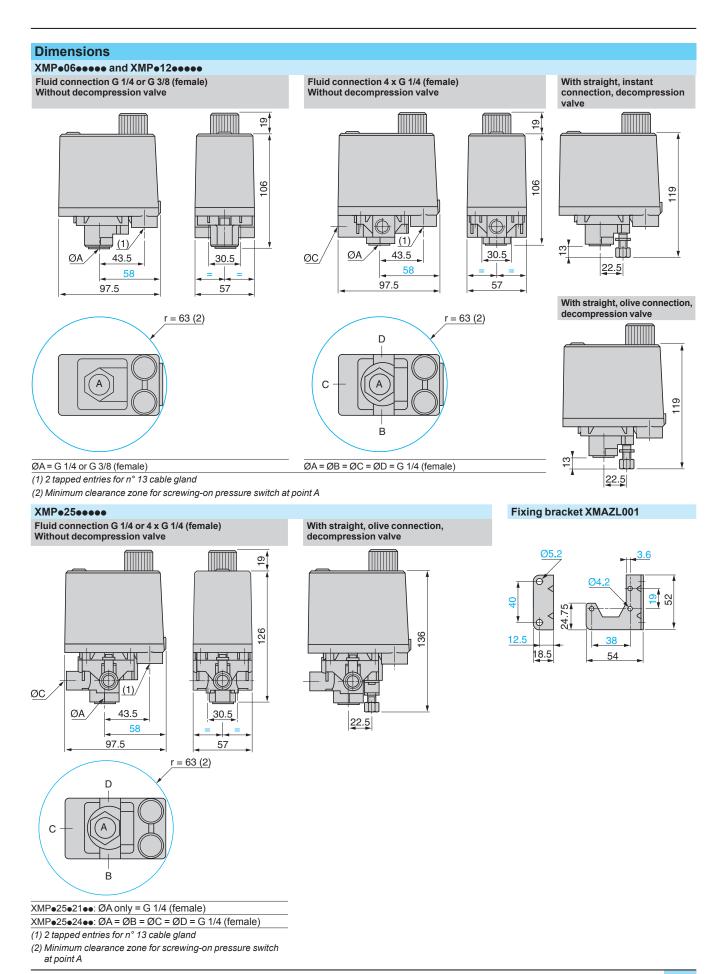
	References				
	Description			Reference	Weight kg
0	Fixing bracket			XMAZL001	0.035
)	Knurled adjustment knu fits over adjustment screv	ob, Ø 36 mm vs to facilitate setting		XMPMDR01	0.010
	13P cable gland	With anti pull-o (for cable Ø 6	ut ring .9 mm)	DE9PM1201	0.005
		Without anti pu (for cable Ø 6	ll-out ring .9 mm)	DE9PM1202	0.005
		With anti pull-o (for cable Ø 9	ut ring .12.5 mm)	DE9PM1203	0.005
	Description	For pressure switch	Sold in lots of	Unit reference	Weight kg
	Diaphragms	Size 6 bar	50	XMPZ31	0.005
		Size 25 bar	50	XMPZ33	0.005



Electromechanical pressure switches

OsiSense XM

For power circuits, OsiSense XMP Accessories and replacement parts



Telemecanique Sensors

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