

# Product data sheet

Specifications



**Electromechanical pressure sensor,  
Pressure sensors XM, switch XMLA  
500 bar, fixed scale 1 threshold, 1 C/  
O**

XMLA500D2S14

## Main

<b>Range of product</b>	OsiSense XM
<b>Product or component type</b>	Electromechanical pressure sensor
<b>Pressure sensor type</b>	Electromechanical pressure sensor
<b>Device short name</b>	XMLA
<b>Pressure rating</b>	500 bar
<b>Controlled fluid</b>	Hydraulic oil (0...160 °C)
<b>Fluid connection type</b>	PT 1/4 (female)
<b>Electrical connection</b>	Screw-clamps terminals, 1 x 0.5...2 x 2.5 mm <sup>2</sup>
<b>AWG gauge</b>	AWG 20...AWG 14
<b>Cable entry</b>	Cable gland 7...13 mm
<b>Contacts type and composition</b>	1 C/O
<b>Product specific application</b>	-
<b>Pressure switch type of operation</b>	Detection of 1 single threshold
<b>Electrical circuit type</b>	Control circuit
<b>Scale type</b>	Fixed differential
<b>Local display</b>	With
<b>Adjustable range of switching point on rising pressure</b>	30...500 bar
<b>Adjustable range of switching point on falling pressure</b>	10...455 bar
<b>Maximum permissible accidental pressure</b>	1125 bar
<b>Destruction pressure</b>	2250 bar
<b>Pressure actuator</b>	Piston
<b>Materials in contact with fluid</b>	Stainless steel FPM, FKM PTFE Brass Steel
<b>Enclosure material</b>	Zinc alloy
<b>[In] rated current</b>	3 A, B300, AC-15 (Ue = 120 V) conforming to EN/IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/IEC 60947-5-1

## Complementary

<b>Natural differential at low setting</b>	20 bar (+/- 6 bar)
<b>Natural differential at high setting</b>	45 bar (+/- 10 bar)
<b>Maximum permissible pressure - per cycle</b>	625 bar
<b>Terminal block type</b>	4 terminals
<b>Maximum operating rate</b>	60 cyc/mn
<b>Repeat accuracy</b>	2 %
<b>[Ui] rated insulation voltage</b>	300 V conforming to UL 508 500 V conforming to EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14
<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to EN/IEC 60947-1
<b>Auxiliary contacts operation</b>	Snap action
<b>Contacts material</b>	Silver contacts
<b>Maximum resistance across terminals</b>	25 mOhm conforming to IEC 255-7 category 3 25 mOhm conforming to NF C 93-050 method A
<b>Short-circuit protection</b>	10 A cartridge fuse, type gG (gl)
<b>Mechanical durability</b>	3000000 cycles
<b>Setting</b>	External
<b>Height</b>	113 mm
<b>Depth</b>	75 mm
<b>Width</b>	35 mm
<b>Net weight</b>	0.75 kg

## Environment

<b>Standards</b>	EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 CE
<b>Product certifications</b>	UL EAC CCC CSA BV LROS (Lloyds register of shipping)
<b>Protective treatment</b>	TC standard version
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Operating position</b>	Any position
<b>Vibration resistance</b>	4 gn conforming to IEC 60068-2-6 (f = 30...500 Hz)
<b>Shock resistance</b>	50 gn conforming to IEC 60068-2-27
<b>Electrical shock protection class</b>	Class I conforming to IEC 1140 Class I conforming to IEC 536 Class I conforming to NF C 20-030
<b>IP degree of protection</b>	IP66 conforming to EN/IEC 60529

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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Number of Units in Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	12.2 cm
Package 1 Length	8.5 cm
Package 1 Weight	757.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	13
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.147 kg

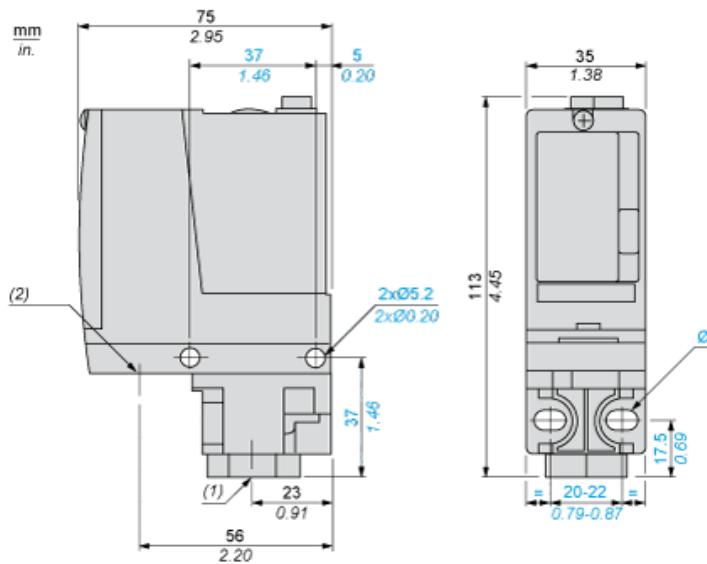
## Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	<a href="#">REACh Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

Warranty	18 months
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## Dimensions



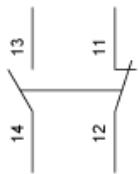
(1) 1 fluid entry, tapped PT 1/4 (JIS B0203)

(2) 1 electrical connections entry, tapped 1/2" PF (JIS B0202)

Ø : 2 elongated holes Ø 5.2 x 6.7

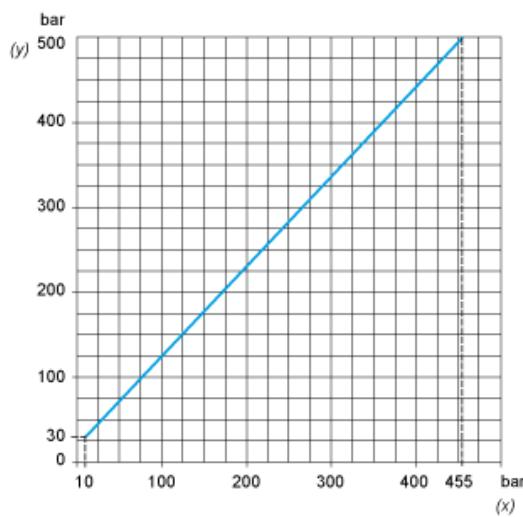
Wiring Diagram

Terminal Model

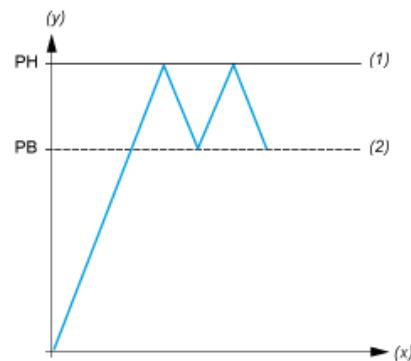


### Operating Curves

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(y) Rising pressure  
(x) Falling pressure



(y) Pressure  
(x) Time  
(1) Adjustable value  
(2) Non adjustable value  
PH : High point  
PB : Below point

### Recommended replacement(s)