



### Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Device short name	ZMLP

### Complementary

Display range	-14.5...6000
[Us] rated supply voltage	24 V DC SELV 17...33 V)
Current consumption	<= 50 mA
Electrical connection	Female connector M12, 2 pins Male connector M12, 4 pins
Type of output signal	Discrete
Discrete output type	Solid state PNP, 2 NO/NC programmable
Switching function	Hysteresis
Maximum switching current	200 mA
Maximum voltage drop	2 V
Adjustable range of switching point on rising pressure	5...98 % of selected display range
Minimum differential travel	10 % of selected display range
Marking	CE
Front material	Polyester
Housing material	PBT Valox
Operating position	Any position
Protection type	Short-circuit protection Overload protection Reverse polarity Overvoltage protection
Response time on output	<= 3 ms discrete output
Display type	4 digits 7 segments
Local signalling	Light ON when switch is actuated 2 LEDs yellow)
Response time	300 ms
Maximum delay first up	100 ms
Accuracy	<= - 0.1 % of the measuring range
Measurement accuracy	<= 1 % of the measuring range
Display accuracy	<= 1 % of the measuring range
Mechanical durability	10000000 cycles
Depth	1.65 in (42 mm)
Height	3.03 in (77 mm)
Maximum Width	1.61 in (41 mm)
Net Weight	0.23 lb(US) (0.103 kg)
[Uimp] rated impulse withstand voltage	0.5 kV DC

## Environment

Product certifications	EAC CULus
Standards	EN/IEC 61000-6-2 EN/IEC 61000-6-4 UL 508
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient air temperature for storage	-22...176 °F (-30...80 °C)
IP degree of protection	IP67 EN/IEC 60529 IP65 conforming to EN/IEC 60529 IP69K DIN 40050
Vibration resistance	5 gn 10...2000 Hz)EN/IEC 60068-2-6
Shock resistance	25 gn EN/IEC 60068-2-27
Electromagnetic compatibility	Immunity to conducted RF disturbances 10 V 0.15...80 MHz EN/IEC 61000-4-6 Surge immunity test 1 kV EN/IEC 61000-4-5 Electrical fast transient/burst immunity test 2 kV EN/IEC 61000-4-4 Susceptibility to electromagnetic fields 10 V/m 80...2000 MHz EN/IEC 61000-4-3 Electrostatic discharge immunity test 8 kV air, 4 kV contact EN/IEC 61000-4-2

## Ordering and shipping details

Category	22661 - XMLA,B,C,D PRESSURE SWITCHES
Discount Schedule	DS2
GTIN	00785901900016
Nbr. of units in pkg.	1
Package weight(Lbs)	0.23 lb(US) (0.10 kg)
Returnability	No
Country of origin	FR

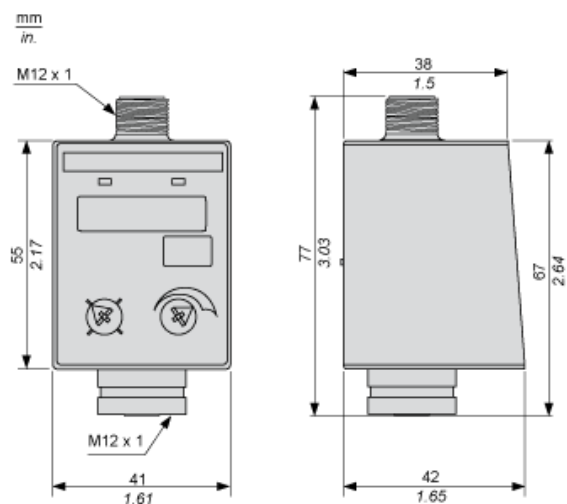
## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.69 in (4.3 cm)
Package 1 width	1.85 in (4.7 cm)
Package 1 Length	3.43 in (8.7 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Weight	6.05 lb(US) (2.745 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

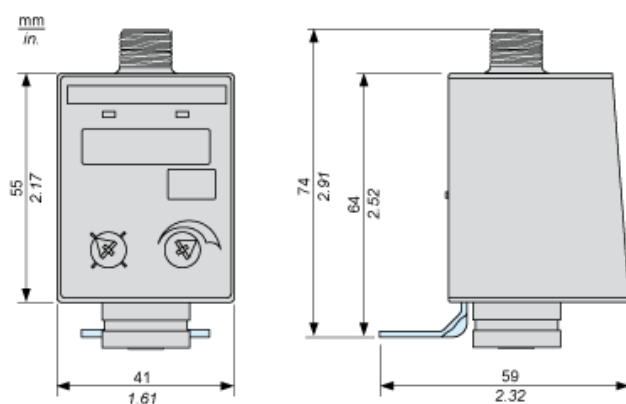
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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>
Circularity Profile	<a href="#">End Of Life Information</a>

## Dimensions



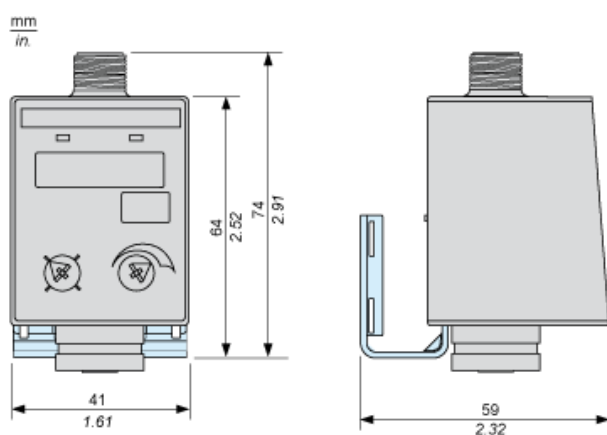
## Dimensions

### Switch with Metal Bracket for Fixing Horizontally



## Dimensions

### Switch with Metal Bracket for Fixing Vertically or on an Inlet Pipe

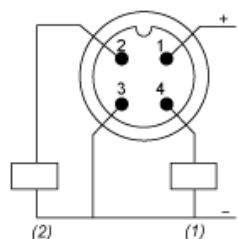


---

## Connections and Schema

---

### Output M12 Male Connector Wiring



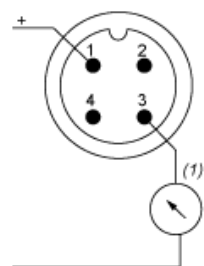
- (1) Out 1
- (2) Out 2

---

## Connections and Schema

---

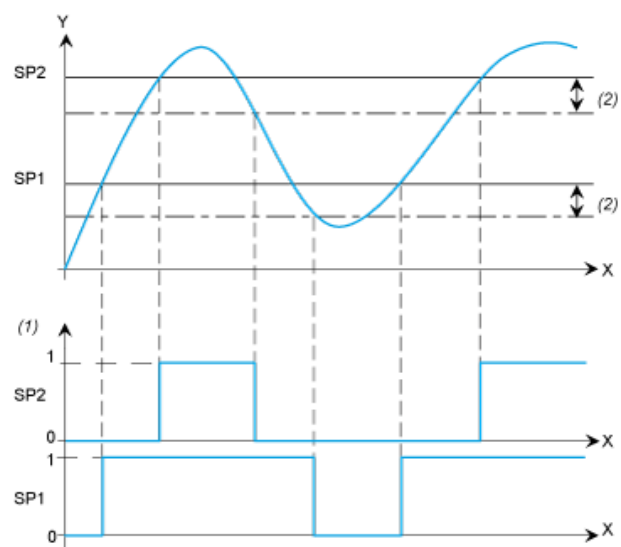
### Input M12 Female Connector Wiring



- (1)  $I_{in} = 4-20 \text{ mA}$

## Two Switching Outputs Description. Hysteresis Mode

The hysteresis switching mode is typically used for the pumping applications



X : Time

Y : Pressure

(1) Output

(2) Fixed hysteresis = 10% of the selected display range

SP1/ Set points (adjustable from 11% to 98% nominal pressure)

SP2 :