



### 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, voltage limit: 17...33 V
Current consumption	<= 50 mA
Electrical connection	M12 female connector with 2 pins M12 male connector with 4 pins
Type of output signal	Discrete
Discrete output type	NPN solid state - 2 NO/NC programmable
Switching function	Hysteresis
Maximum switching current	200 mA
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	Overload protection Overvoltage protection Reverse polarity Short-circuit protection
Response time on output	<= 3 ms for discrete output
Display type	4 digits 7 segments
Local signalling	2 LEDs yellow for light ON when switch is actuated

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Response time	300 ms
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	42 mm
Height	77 mm
Width	41 mm
Product weight	0.103 kg
[Uimp] rated impulse withstand voltage	0.5 kV DC

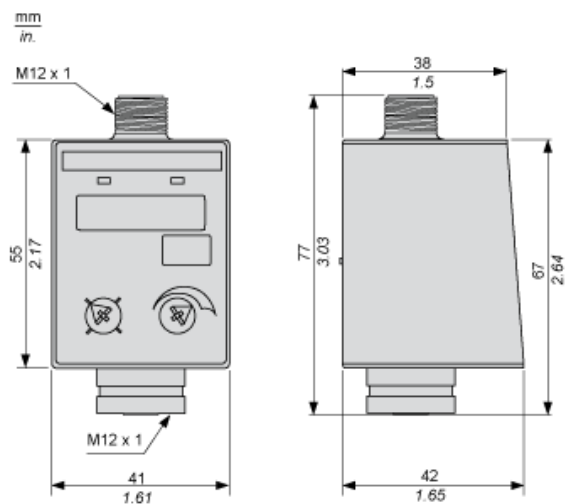
## Environment

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

## Offer Sustainability

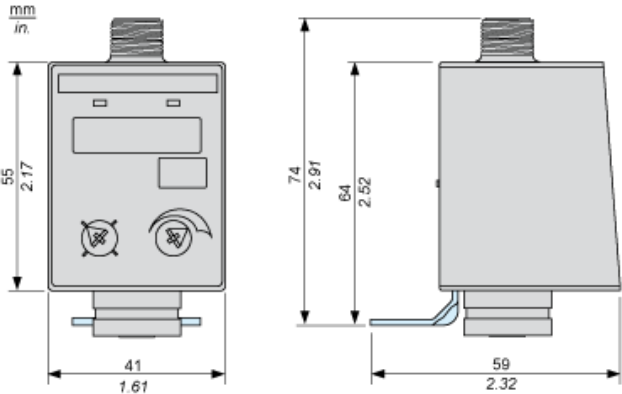
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1406 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">Product environmental</a>
Product end of life instructions	Available <a href="#">End of life manual</a>

Dimensions



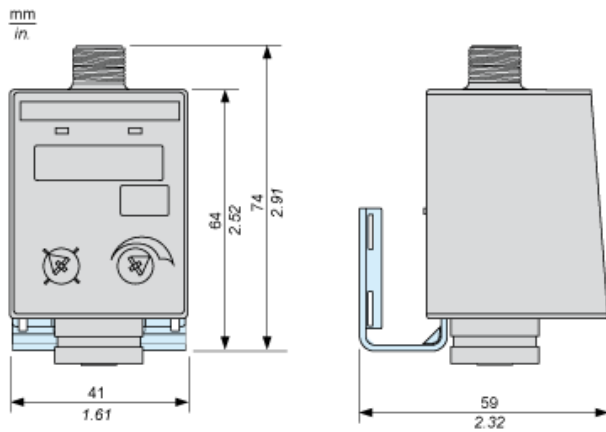
Dimensions

Switch with Metal Bracket for Fixing Horizontally



Dimensions

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

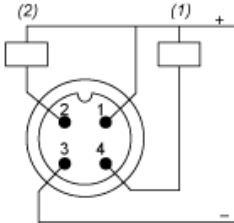


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Connections and Schema

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Output M12 Male Connector Wiring



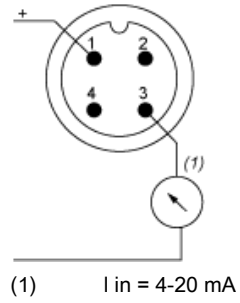
- (1) Out 1
- (2) Out 2

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## Connections and Schema

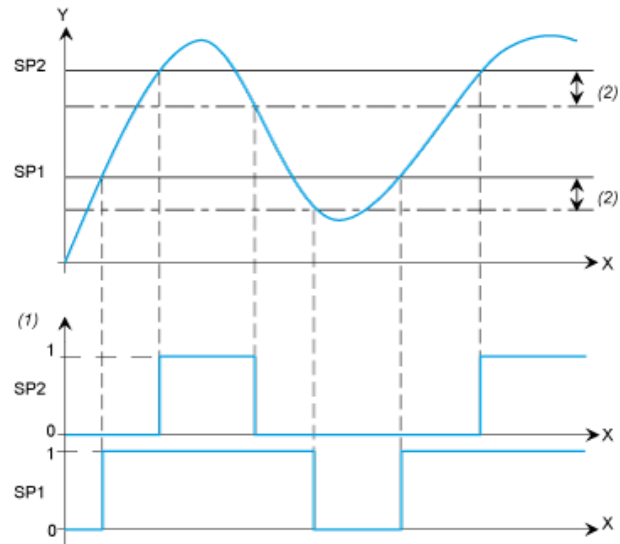
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### Input M12 Female Connector Wiring



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/SP2 Set points (adjustable from 11% to 98% nominal pressure)