Product data sheet

Specifications

Electronic pressure sensors, Pressure sensors XM, Display & switch ZMLP, 24 VDC, 2 PNP, hysteresis, M12

ZMLPA2P0SH

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 limits: 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 for discrete output
Display Type	4 digits 7 segments
Local Signalling	2 LEDs (yellow) for light ON when switch is actuated
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	42 mm
Height	77 mm
Width	41 mm
Net Weight	0.103 kg
[Uimp] Rated Impulse Withstand Voltage	0.5 kV DC

Environment

Product Certifications	cULus
Standards	IEC 61000-6-2 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	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050
Vibration Resistance	5 gn (f= 10…2000 Hz) conforming to IEC 60068-2-6
Shock Resistance	25 gn conforming to IEC 60068-2-27
Electromagnetic Compatibility	Immunity to conducted RF disturbances: 10 V 0.15...80 MHz conforming to IEC 61000-4-6 Surge immunity test: 1 kV conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test: 2 kV conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields: 10 V/m 80...2000 MHz conforming to IEC 61000-4-3 Electrostatic discharge immunity test: 8 kV air, 4 kV contact conforming to IEC 61000-4-2

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.700 cm
Package 1 Width	4.300 cm
Package 1 Length	4.700 cm
Package 1 Weight	105.000 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	24
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	2.709 kg

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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

Guide to assess a product's sustainability ⟩

RoHS/REACh

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   Yes

Certifications & Standards

Reach Regulation   REACh Declaration

Eu Rohs Directive   Pro-active compliance (Product out of EU RoHS legal scope)

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 www.P65Warnings.ca.gov
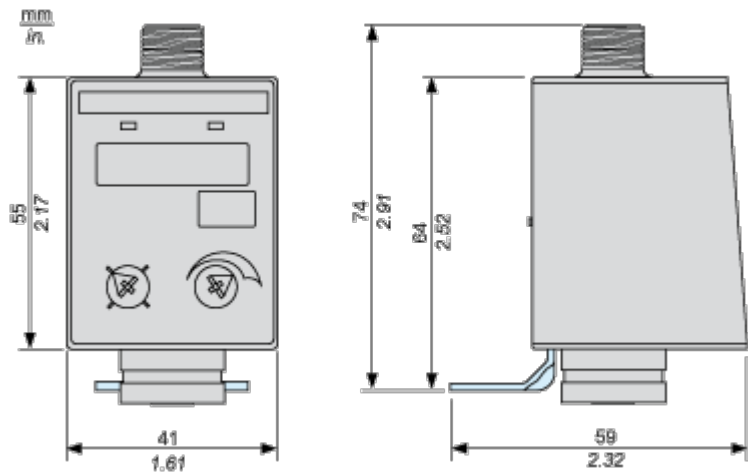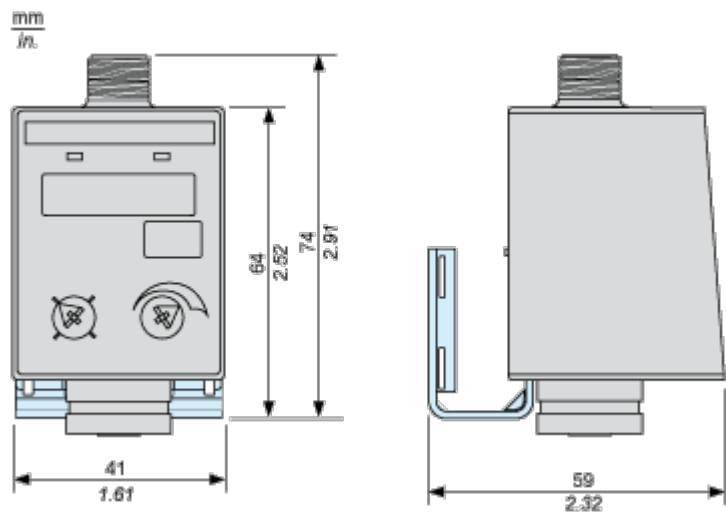

Dimensions Drawings

Dimensions
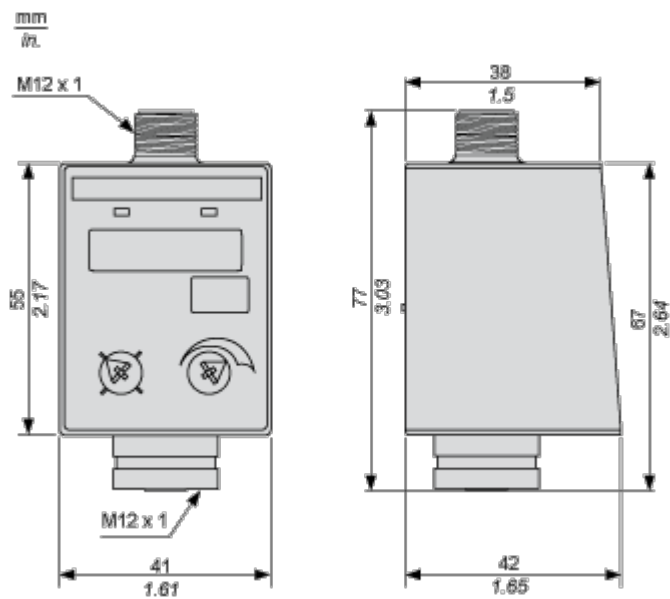
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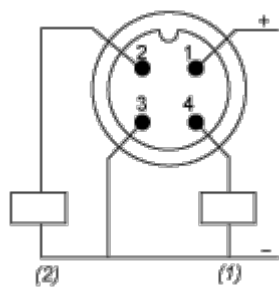
Switch with Metal Bracket for Fixing Horizontally

Dimensions

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

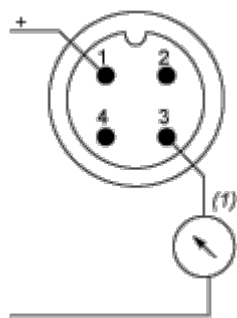**Output M12 Male Connector Wiring**

(1)   Out 1

(2)   Out 2

Connections and Schema

Input M12 Female Connector Wiring
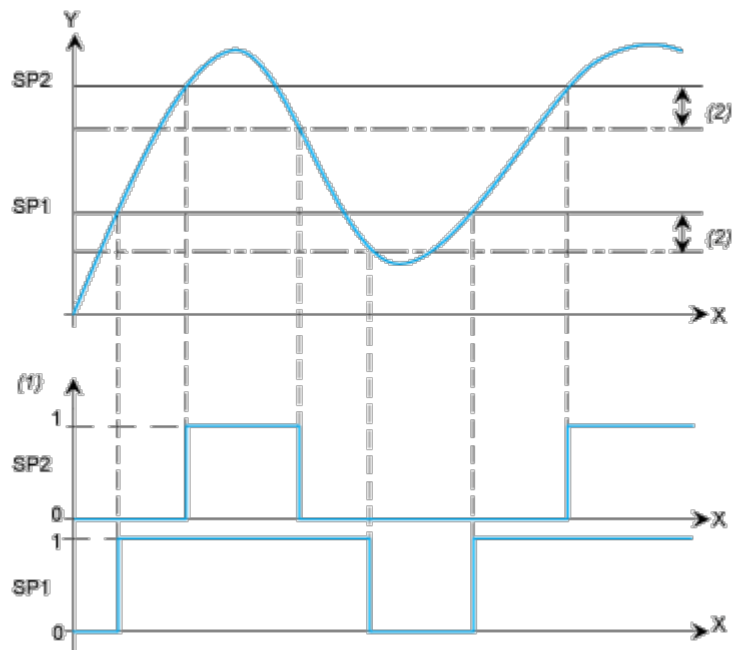

(1)   I in = 4-20 mA

Performance Curves

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)