Product data sheet

Specifications



Electronic pressure sensors, Pressure sensors XM, Display & switch ZMLP, 24 VDC, 4...20 mA, PNP, window, M12

ZMLPA1P2SW

Main

Range Of Product	OsiSense XM
Product Or Component Type	Electronic pressure sensors
Device Short Name	ZMLP

Complementary

Complementary	
Display Range	-14.56000
[Us] Rated Supply Voltage	24 V DC SELV (voltage limits: 1733 V)
Current Consumption	<= 50 mA
Electrical Connection	Female connector M12, 2 pins Male connector M12, 4 pins
Type Of Output Signal	Analogue + discrete
Analogue Output Function	420 mA
Discrete Output Type	Solid state PNP, NO/NC programmable
Switching Function	Window
Maximum Switching Current	200 mA
Maximum Voltage Drop	2 V
Adjustable Range Of Switching Point On Rising Pressure	598 % of selected display range
Adjustable Range Of Switching Point On Falling Pressure	295 % of selected display range
Minimum Differential Travel	3 % of selected display range
Marking	CE
Front Material	Polyester
Housing Material	PBT Valox
Operating Position	Any position
Protection Type	Overvoltage protection Reverse polarity Short-circuit protection Overload protection
Response Time On Output	<= 3 ms for analog output <= 3 ms for discrete output
Display Type	4 digits 7 segments
Local Signalling	1 LED (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	1000000 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

cULus
IEC 61000-6-2 UL 508 IEC 61000-6-4
-2570 °C
-3080 °C
IP67 conforming to IEC 60529 IP65 conforming to IEC 60529 IP69K conforming to DIN 40050
5 gn (f= 102000 Hz) conforming to IEC 60068-2-6
25 gn conforming to IEC 60068-2-27
Immunity to conducted RF disturbances: 10 V 0.1580 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 802000 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	4.9 cm
Package 1 Width	9.1 cm
Package 1 Length	4.3 cm
Package 1 Weight	106.0 g
Unit Type Of Package 2	S01
Number Of Units In Package 2	24
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.707 kg

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

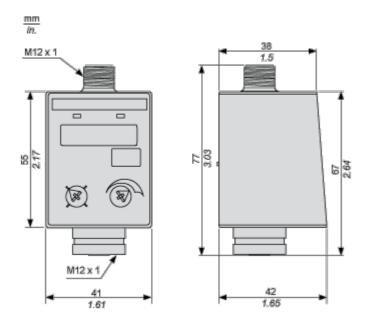
Rohs Exemption Information Yes

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

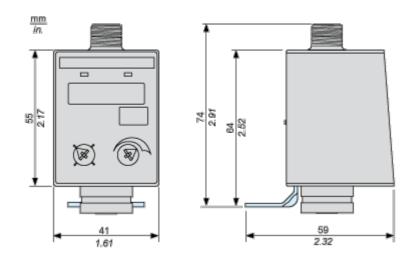
Dimensions Drawings

Dimensions



Dimensions

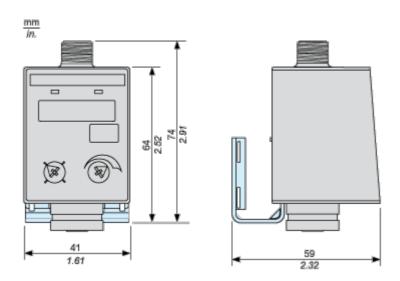
Switch with Metal Bracket for Fixing Horizontally



Product data sheet

Dimensions

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

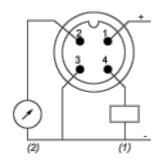


Product data sheet

Connections and Schema

Connections and Schema

Output M12 Male Connector Wiring

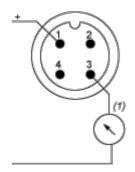


(1) Out

(2) I Out

Connections and Schema

Input M12 Female Connector Wiring

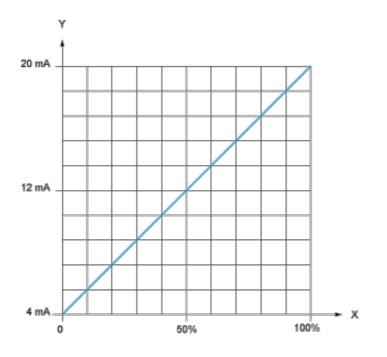


(1) I in = 4-20 mA

Performance Curves

Analog Output Description

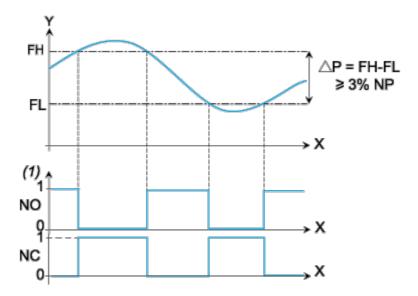
The 4...20 mA analog output is strictly the image of the pressure transmitter output signal.



- X: Pressure
- Y: Analog output signal

Switching Output Description. Window Mode

The window switching mode is typically used for the pressure regulation applications



- X: Time
- Y: Pressure
- (1) Output
- NP: Nominal pressure
- FH: High switching point (adjustable from 5 % to 98 % NP)
- FL: Low switching point (adjustable from 2 % to 95 % NP)