

ZMLPA1P2SW

Display & switch ZMLP - 24VDC - 4..20 mA - PNP
- window - M12



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 | Analogue + discrete |
| Analogue output function | 4...20 mA |
| Discrete output type | PNP solid state - NO/NC programmable |
| Switching function | Window |
| Maximum switching current | 200 mA |
| Voltage drop | <= 2 V |
| Adjustable range of switching point on rising pressure | 5...98 % of selected display range |
| Adjustable range of switching point on falling pressure | 2...95 % 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 | Overload protection Reverse polarity Short-circuit protection Overvoltage 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 |
| 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 |

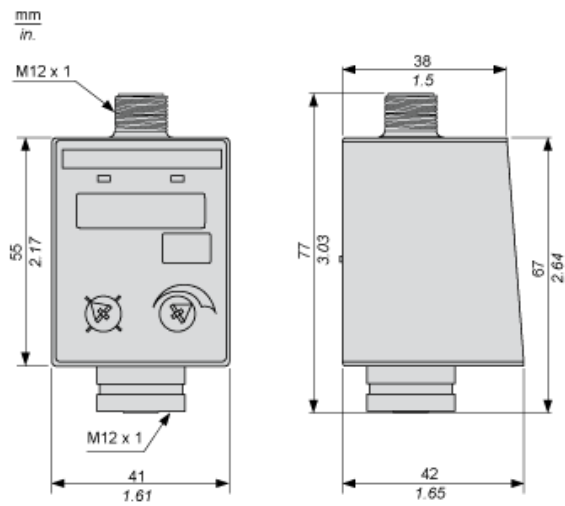
Environment

| | |
|---------------------------------------|---|
| 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

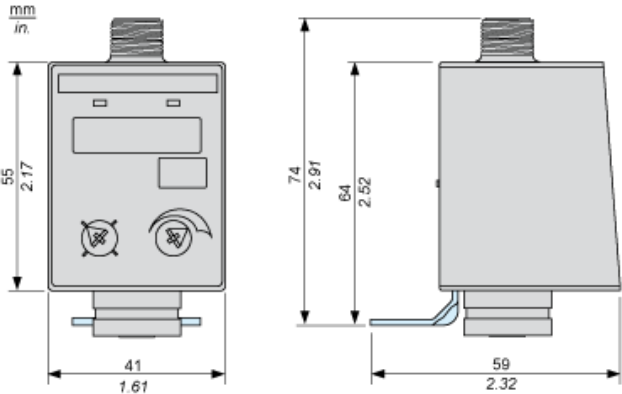
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1406 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold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

Dimensions



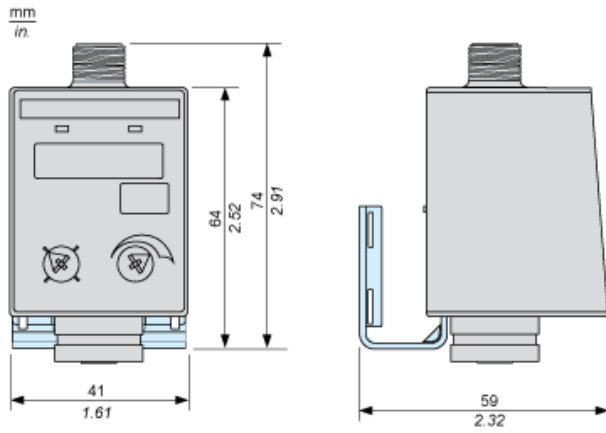
Dimensions

Switch with Metal Bracket for Fixing Horizontally



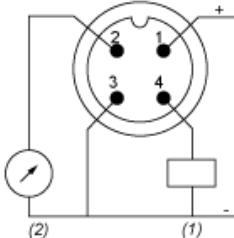
Dimensions

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



Connections and Schema

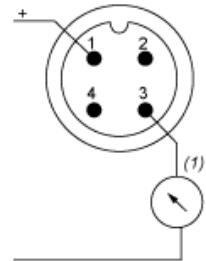
Output M12 Male Connector Wiring



- (1) Out
- (2) I Out

Connections and Schema

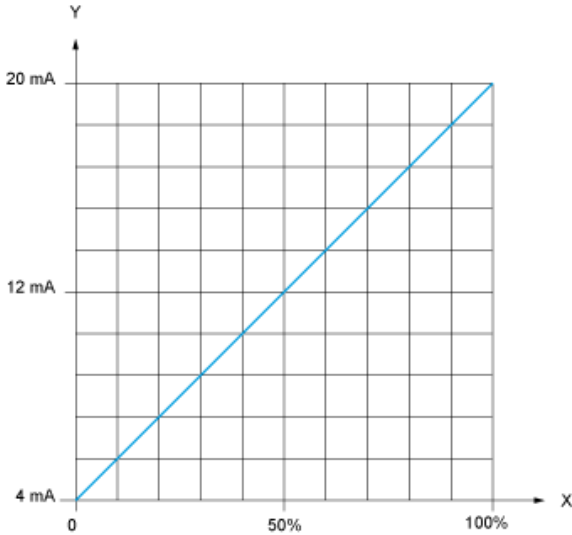
Input M12 Female Connector Wiring



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

Analog Output Description

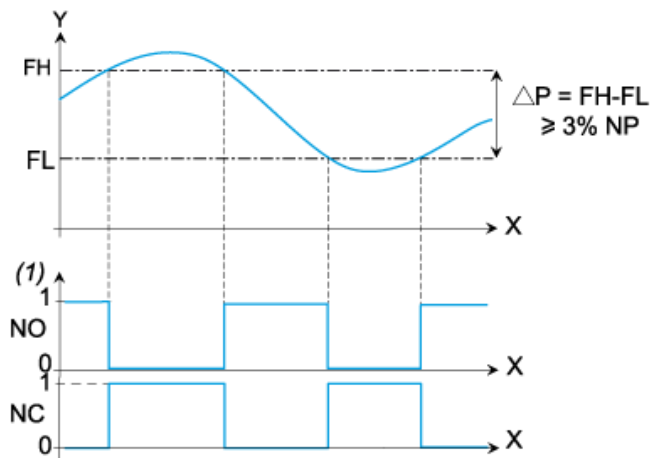
The 4...20 mA analog output is strictly the image of the pressure transmitter output signal.



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)