



Main

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|---|--|
| Range of product | OsiSense XM |
| Product or component type | Electronic pressure sensors |
| Pressure sensor type | Pressure transmitter |
| Pressure switch type of operation | Pressure switch with 2 switching outputs |
| Device short name | XMLR |
| Pressure sensor size | -14.5 psi -1 bar |
| Maximum permissible accidental pressure | 300 kPa 3 bar 43 psi |
| Destruction pressure | 300 kPa 43 psi 3 bar |
| Controlled fluid | Fresh water (0...80 °C) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C) |
| Fluid connection type | G 1/4 (female) conforming to DIN 3852-Y |
| [Us] rated supply voltage | 24 V DC SELV, voltage limits: 17...33 V |

Complementary

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|---|---|
| Current consumption | <= 50 mA |
| Electrical connection | 4 pins M12 male connector |
| Type of output signal | Discrete |
| Discrete output type | Solid state PNP, 2 NO/NC programmable |
| Maximum switching current | 250 mA |
| Contacts type and composition | 2 NO/NC programmable |
| Scale type | Fixed differential |
| Voltage drop | <= 2 V |
| Adjustable range of switching point on rising pressure | -100...-8 kPa -1...-0.08 bar -14.5...-1.16 psi |
| Adjustable range of switching point on falling pressure | -14.1...-0.73 psi -97...5 kPa -0.97...-0.05 bar |
| Minimum differential travel | 0.43 psi 3 kPa 0.03 bar |
| Materials in contact with fluid | 316L stainless steel Ceramic Fluorocarbon FKM (Viton) |
| Front material | Polyester |
| Housing material | 316L stainless steel Polyacrylamide |
| Operating position | Any position, but disposals can falsified the measurement in case of upside down mounting |
| Protection type | Short-circuit protection Overvoltage protection Reverse polarity Overload protection |
| Response time on output | <= 5 ms for discrete output |

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|--|---|
| Time delay range | 0...50 s in steps of 1 second |
| Display type | 4 digits 7 segments |
| Local signalling | 2 LEDs yellow for light ON when switch is actuated |
| Display response time type | Fast 50 ms Normal 200 ms Slow 600 ms |
| Delay first up | <= 300 ms |
| Accuracy | <= 1 % of the measuring range |
| Measurement accuracy | <= 0.6 % of the measuring range |
| Repeat accuracy | <= 0.2 % of the measuring range |
| Drift of the sensitivity | +/- 0.03 % of measuring range/°C |
| Drift of the zero point | +/- 0.1 % of measuring range/°C |
| Display accuracy | <= 1 % of the measuring range |
| Mechanical durability | >= 10000000 cycles |
| Depth | 42 mm |
| Height | 93 mm |
| Width | 41 mm |
| Product weight | 0.19 kg |
| [Uimp] rated impulse withstand voltage | 0.5 kV DC |
| Electromagnetic compatibility | Electrostatic discharge immunity test - test level 8 kV air, 4 kV contact conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4 Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 |

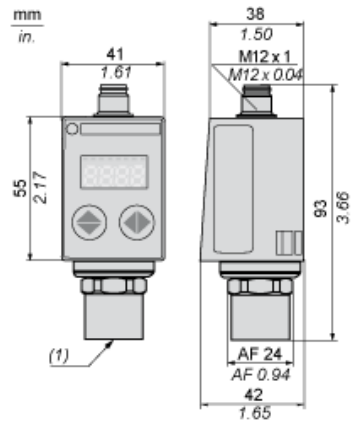
Environment

| | |
|---------------------------------------|--|
| Marking | CE |
| Product certifications | EAC CULus |
| Standards | EN/IEC 61326-2-3 UL 61010-1 |
| Ambient air temperature for operation | -20...80 °C |
| Ambient air temperature for storage | -40...80 °C |
| IP degree of protection | IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529 |
| Vibration resistance | 20 gn (f = 10...2000 Hz) conforming to EN/IEC 60068-2-6 |
| Shock resistance | 50 gn conforming to EN/IEC 60068-2-27 |

Offer Sustainability

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|--------------------------|--|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1351 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |

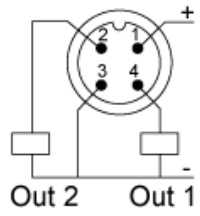
Dimensions



(1) Fluid entry: G 1/4 A female

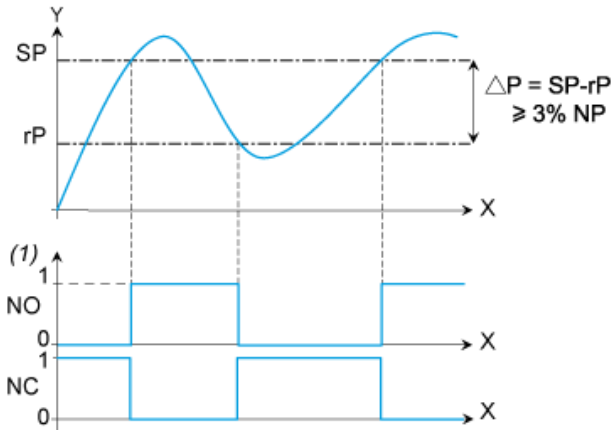
Connections and Schema

Connector Wiring



Switching Output Description. Hysteresis Mode

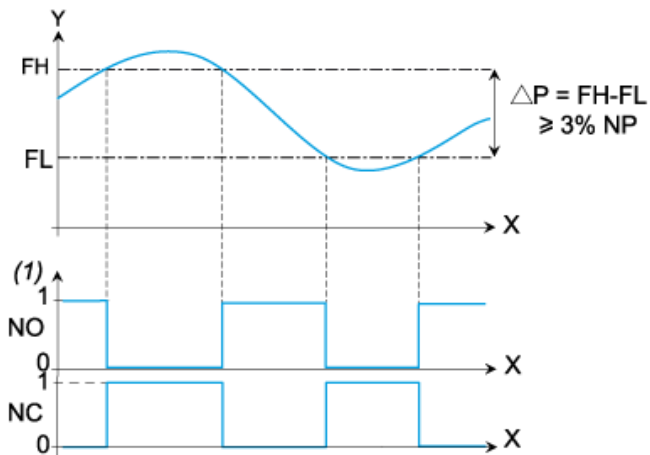
The hysteresis switching mode is typically used for the “pumping and/or emptying applications”.



X : Time
Y : Pressure
(1) Output
NP : Nominal Pressure
SP : Set point (adjustable from 8 % to 100 % NP)
rP : Reset point (adjustable from 5 % to 97 % NP)

Switching Output Description. Window Mode

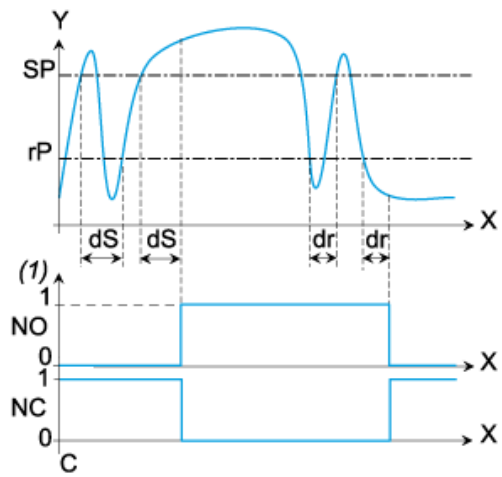
The window switching mode is typically used for the “pressure regulation applications”



X : Time
Y : Pressure
(1) Output
NP : Nominal pressure
FH : High switching point (adjustable from 8 % to 100 % NP)
FL : Low switching point (adjustable from 5 % to 97 % NP)

Switching Output Description. Time Delay

The Time Delay is typically used to filter out the fast pressure transients.
The output only switches after a time “dS” and “dr” adjustable from 0 to 50 seconds.



X : Time
 Y : Pressure
 (1) Output
 SP : Set point
 rP : Reset point
 dS : Time delay on the set point
 dr : Time delay on the reset point

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