



## Main

|   |  |
|---|--|
| Range of product                        | OsiSense XM  |
| Product or component type               | Electronic pressure sensors  |
| Pressure sensor type                    | Pressure transmitter   |
| Pressure switch type of operation       | Pressure transmitter with 1 switching output   |
| Device short name                       | XMLR   |
| Pressure sensor size                    | 1450.38 psi (100 bar)<br>1450 psi  |
| Maximum permissible accidental pressure | 4351.13 psi (300 bar)<br>4350 psi<br>30 MPa  |
| Destruction pressure                    | 8702.26 psi (600 bar)<br>8700 psi<br>60 MPa  |
| Controlled fluid                        | Fresh water (32...176 °F (0...80 °C))<br>Air (-20...80 °C)<br>Hydraulic oil (-20...80 °C)<br>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

|   |   |
|---|---|
| Current consumption                                     | <= 50 mA  |
| Electrical connection                                   | 4 pins M12 male connector   |
| Analogue output function                                | 0...10 V  |
| Type of output signal                                   | Analogue + discrete   |
| Analogue output function                                | 0...10 V  |
| Discrete output type                                    | Solid state NPN, NO/NC programmable   |
| Maximum switching current                               | 250 mA  |
| Contacts type and composition                           | NO/NC programmable  |
| Scale type  | Fixed differential  |
| Voltage drop  | <= 2 V  |
| Adjustable range of switching point on rising pressure  | 116.03...1450.38 psi (8...100 bar)<br>116...1450 psi<br>0.8...10 MPa                          |
| Adjustable range of switching point on falling pressure | 72.52...1406.87 psi (5...97 bar)<br>72.5...1407 psi<br>0.5...9.7 MPa                          |
| Minimum differential travel                             | 43.51 psi (3 bar)<br>43.5 psi<br>0.3 MPa  |
| Materials in contact with fluid                         | 316L stainless steel  |
| Front material  | Polyester   |
| Housing material  | Polyacrylamide<br>316L stainless steel  |
| Operating position                                      | Any position, but disposals can falsified the measurement in case of upside down mounting     |
| Protection type   | Overload protection<br>Overvoltage protection<br>Reverse polarity<br>Short-circuit protection |
| Response time on output                                 | <= 10 ms analog output<br><= 5 ms discrete output   |
| Time delay range  | 0...50 s in steps of 1 second   |
| Display type  | 4 digits 7 segments   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|  |   |
|--|---|
| Local signalling                       | 1 LED yellow light ON when switch is actuated   |
| Display response time type             | Fast 50 ms<br>Normal 200 ms<br>Slow 600 ms  |
| Delay first up                         | <= 300 ms   |
| Accuracy                               | <= 1 % of the measuring range   |
| Linearity error                        | <= 0.5 % of the measuring range   |
| Hysteresis                             | <= 0.2 % 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                                  | 1.65 in (42 mm)   |
| Height                                 | 3.46 in (88 mm)   |
| Width                                  | 1.61 in (41 mm)   |
| Product weight                         | 0.41 lb(US) (0.186 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<br>Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3<br>Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4<br>Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5<br>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                | CULus<br>EAC   |
| standards                             | UL 61010-1<br>EN/IEC 61326-2-3                                     |
| ambient air temperature for operation | -4...176 °F (-20...80 °C)  |
| ambient air temperature for storage   | -40...176 °F (-40...80 °C)   |
| IP degree of protection               | IP65 conforming to EN/IEC 60529<br>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

|  |  |
|--|--|
| Not Green Premium product  | Not Green Premium product  |
| Compliant - since 1351 - Schneider Electric declaration of conformity  | Compliant - since 1351 - Schneider Electric declaration of conformity  |
| Reference not containing SVHC above the threshold  | Reference not containing SVHC above the threshold  |
| WARNING: This product can expose you to chemicals including:   | WARNING: This product can expose you to chemicals including:   |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                | 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. | 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

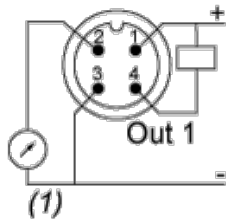
## Dimensions



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

## Connections and Schema

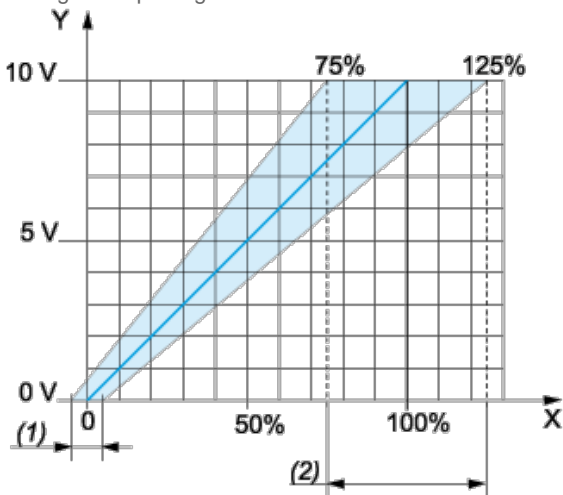
### Connector Wiring



(1) I Out or V Out

## Analogue Output Description

Analogue Output Signal



X : Pressure

Y : Analogue output signal

(1) An offset of +/-5% of nominal pressure can be compensated (with **Cof** Configuration menu. **Cof**: Offset Compensation)

(2) The Analogue curve can be adjusted from -25% to +25% of nominal pressure (with **AEP** Configuration menu. **AEP**: analogue end point).

## 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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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