

# XMLF002D2025

pressure sensor 2.5 bar - G1/4 (female) - 24 V  
- NO or NC - 4..20 mA



## Main

|   |  |
|---|--|
| Range of product  | Telemecanique Pressure sensors XM  |
| Product or component type                               | Electronic pressure sensors  |
| Pressure switch type of operation                       | Regulation between 2 thresholds  |
| Pressure sensor name                                    | XMLF   |
| Wiring technique  | 4-wire   |
| Pressure rating   | 2.5 bar  |
| Fluid connection type                                   | G 1/4 (female) conforming to ISO 228   |
| Controlled fluid  | Air (-15...80 °C)<br>Corrosive fluid (-15...80 °C)<br>Hydraulic oil (-15...80 °C)<br>Fresh water (0...80 °C) |
| Type of output signal                                   | Analogue + discrete  |
| Analogue output function                                | 4...20 mA  |
| Discrete output type                                    | Solid state PNP or NPN programmable, 1 NO or 1 NC programmable   |
| Electrical connection                                   | Male connector M12, 4 pins   |
| Product specific application                            | -  |
| Adjustable range of switching point on rising pressure  | 0.2...2.5 bar  |
| Adjustable range of switching point on falling pressure | 0.12...2.42 bar  |
| Destruction pressure                                    | 15 bar   |
| Type of installation                                    | Control circuit  |
| Scale type  | Adjustable differential scale  |
| Maximum switching current                               | 200 mA   |
| [Us] rated supply voltage                               | 24 V DC, voltage limits: 17...33 V   |
| Materials in contact with fluid                         | FPM (Viton)<br>Stainless steel type AISI 303   |

## Complementary

|   |  |
|---|--|
| Setting                                       | External setting   |
| Possible differential minimum at low setting  | 0.08 bar   |
| Possible differential minimum at high setting | 0.08 bar   |
| Possible differential maximum at high setting | 2.38 bar   |
| Maximum permissible accidental pressure       | 10 bar   |
| Local display                                 | With   |
| Protection type                               | Overload protection<br>Short-circuit protection<br>Reverse polarity<br>Connection faults |
| Current consumption                           | 80 mA  |
| Operating rate in Hz                          | 50 Hz  |
| Drift of the sensitivity                      | +/- 0.03 % of measuring range/°C   |
| Drift of the zero point                       | +/- 0.1 % of measuring range/°C  |

|                            |                                 |
|----------------------------|---------------------------------|
| Time delay range           | 0...50 s in steps of 1 second   |
| Response time on output    | 5...500 ms, in steps of 1 ms    |
| Mechanical durability      | 10000000 cycles                 |
| Display response time type | Fast<br>Normal<br>Slow          |
| Height                     | 113 mm                          |
| Depth                      | 58 mm                           |
| Width                      | 46 mm                           |
| Net weight                 | 0.48 kg                         |
| Surge withstand            | 0.5 kV DC                       |
| Measurement accuracy       | <= 0.6 % of the measuring range |
| Repeat accuracy            | 0.5 %                           |

## Environment

|                                       |   |
|---------------------------------------|---|
| Operating position                    | Any position  |
| Standards                             | EN/IEC 60947-1<br>EN/IEC 61000-4-5<br>EN 50082<br>CE<br>EN/IEC 60947-5-1<br>EN/IEC 61000-6-2<br>EN/IEC 61000-4-11<br>EN/IEC 61000-4-2<br>EN 50081<br>EN/IEC 61000-4-6<br>EN/IEC 61000-4-3<br>EN/IEC 61000-4-8<br>EN/IEC 61000-4-4 |
| Product certifications                | UL[RETURN]CSA   |
| Ambient air temperature for operation | -25...80 °C   |
| Vibration resistance                  | 35 gn (f= 60...2000 Hz) conforming to EN/IEC 60068-2-6<br>5 gn (f= 25...200 Hz) conforming to EN/IEC 60068-2-6  |
| Protective treatment                  | TC  |
| Shock resistance                      | 50 gn conforming to EN/IEC 60068-2-27   |
| Resistance to fast transients         | 2 kV conforming to EN/IEC 61000-4-4   |
| IP degree of protection               | IP67 conforming to EN/IEC 60529   |
| NEMA degree of protection             | NEMA 13<br>NEMA 4<br>NEMA 12<br>NEMA 6  |
| Resistance to electrostatic discharge | 4 kV on contact conforming to EN/IEC 61000-4-2<br>8 kV in air conforming to EN/IEC 61000-4-2  |
| Resistance to electromagnetic fields  | 10 V/m conforming to EN/IEC 61000-4-3   |
| Resistance to conducted disturbances  | 10 V conforming to EN/IEC 61000-4-6   |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|