

# XMLP100PD730

Electronic pressure sensors, Pressure sensors  
XM, transmitter, XMLP, 100 PSI, 1/4"18NPT,  
0...10 V, M12, set 1



## Main

|                           |                                                                                                                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product          | OsiSense XM                                                                                                                                                                                                |
| Product or Component Type | Electronic pressure sensors                                                                                                                                                                                |
| Pressure sensor type      | Pressure transmitter                                                                                                                                                                                       |
| Pressure sensor name      | XMLP                                                                                                                                                                                                       |
| Electrical circuit type   | Control circuit                                                                                                                                                                                            |
| Pressure Rating           | 100 psi (689.48 kPa)                                                                                                                                                                                       |
| Local display             | Without                                                                                                                                                                                                    |
| Controlled fluid          | Fresh water 32...275 °F (0...135 °C)<br>Air -40...275 °F (-40...135 °C)<br>Hydraulic oil -40...275 °F (-40...135 °C)<br>Gas -40...275 °F (-40...135 °C)<br>Refrigeration fluid -40...275 °F (-40...135 °C) |
| Fluid connection type     | 1/4" - 18 NPT (male)                                                                                                                                                                                       |
| Electrical connection     | 1 male connector M12 4 pins                                                                                                                                                                                |
| [Us] rated supply voltage | 24 V DC SELV 12...33 V)                                                                                                                                                                                    |
| Current Consumption       | < 7 mA                                                                                                                                                                                                     |
| Type of output signal     | Analogue                                                                                                                                                                                                   |
| Analogue output function  | 0...10 V, 3-wire                                                                                                                                                                                           |
| Quantity per Set          | Set of 1                                                                                                                                                                                                   |
| Type of Packing           | Individual                                                                                                                                                                                                 |

## Complementary

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure setting range                  | 0...100 psi (0.00...689.48 kPa)                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum permissible accidental pressure | 300 psi (2068.43 kPa)                                                                                                                                                                                                                                                                                                                                                                                                              |
| Destruction pressure                    | 900 psi (6205.28 kPa)                                                                                                                                                                                                                                                                                                                                                                                                              |
| Materials in contact with fluid         | Stainless steel AISI 316L                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operating position                      | Any position                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protection Type                         | Load short-circuit<br>Reverse polarity                                                                                                                                                                                                                                                                                                                                                                                             |
| Electromagnetic compatibility           | Electrical fast transient/burst immunity test EN/IEC 61000-4-4 2 kV<br>Electrostatic discharge immunity test EN/IEC 61000-4-2 8 kV air, 4 kV contact<br>1.2/50 µs shock waves immunity test EN/IEC 61000-4-5 1 kV 42 Ohm<br>Immunity to magnetic fields EN/IEC 61000-4-8 100 A/m 50 Hz<br>Susceptibility to electromagnetic fields EN/IEC 61000-4-3 10 V/m 80...3000 MHz<br>Radiated RF fields EN/IEC 61000-4-6 10 V 0.01...80 MHz |
| [Uimp] rated impulse withstand voltage  | 0.5 kV                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Response time on output                 | <= 2 ms 10...90 % of full scale                                                                                                                                                                                                                                                                                                                                                                                                    |
| Measurement accuracy                    | +/- 0.5 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                   |
| Resolution                              | 0.1 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                       |
| Drift of the sensitivity                | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                   |
| Drift of the zero point                 | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical durability                   | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Net Weight                              | 0.19 lb(US) (0.088 kg)                                                                                                                                                                                                                                                                                                                                                                                                             |
| Diameter                                | 1.02 in (26 mm)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Length                                  | 1.42 in (36 mm)                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Environment

|                                       |                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|
| Standards                             | NSF ANSI 61<br>EN/IEC 61326-2-3                                                                        |
| Product Certifications                | CE<br>EAC<br>CULus<br>RCM                                                                              |
| Protective treatment                  | TC                                                                                                     |
| Ambient Air Temperature for Operation | -22...185 °F (-30...85 °C)                                                                             |
| Ambient Air Temperature for Storage   | -58...212 °F (-50...100 °C)                                                                            |
| Vibration resistance                  | 20 gn 15...2000 Hz) EN/IEC 60068-2-6                                                                   |
| Shock resistance                      | 100 gn 11 ms EN/IEC 60068-2-27                                                                         |
| IP degree of protection               | IP65 conforming to EN/IEC 60529<br>IP67 conforming to EN/IEC 60529<br>IP69K conforming to EN/IEC 60529 |

## Ordering and shipping details

|                       |                                          |
|-----------------------|------------------------------------------|
| Category              | 22419-PRESSURE SWITCH IEC (HIGH,LOW,GEN) |
| Discount Schedule     | DS2                                      |
| GTIN                  | 3389119639538                            |
| Nbr. of units in pkg. | 1                                        |
| Package weight(Lbs)   | 3.10 oz (88.0 g)                         |
| Returnability         | Yes                                      |
| Country of origin     | CH                                       |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.69 in (4.3 cm)       |
| Package 1 width              | 1.85 in (4.7 cm)       |
| Package 1 Length             | 3.46 in (8.8 cm)       |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 24                     |
| Package 2 Weight             | 5.02 lb(US) (2.277 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 5.91 in (15 cm)        |
| Package 2 Length             | 15.75 in (40 cm)       |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                             |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                              |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                                                                                                                                                                                                                                                                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                 |

## Dimensions



(1) SW24 tightening torque  $\leq 25$  N.m / 221 lb-in

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## Wiring Diagram

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### 3-Wire Technique (0-10 V)

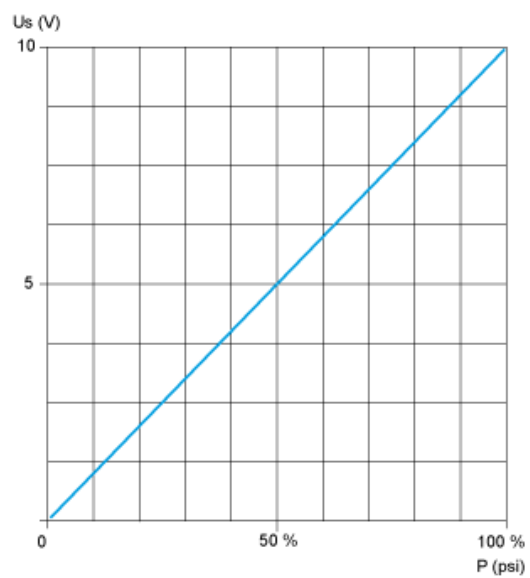


(a) V out

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Curves

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