

# XMLP016BD190

pressure transmitter - XMLP - 16 bar - 7/16  
female - 0,5..4,5V - M12 - set of 1



## Main

|                           |                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product          | Telemecanique Pressure sensors XM                                                                                                          |
| Product or component type | Electronic pressure sensors                                                                                                                |
| Pressure sensor type      | Pressure transmitter                                                                                                                       |
| Pressure sensor name      | XMLP                                                                                                                                       |
| Electrical circuit type   | Control circuit                                                                                                                            |
| Pressure rating           | 16 bar                                                                                                                                     |
| Local display             | Without                                                                                                                                    |
| Controlled fluid          | Fresh water (0...135 °C)<br>Air (-40...135 °C)<br>Hydraulic oil (-40...135 °C)<br>Gas (-40...135 °C)<br>Refrigeration fluid (-40...135 °C) |
| Fluid connection type     | SAE 7/16-20UNF-2B (female) with schrader                                                                                                   |
| Electrical connection     | 1 male connector M12 4 pins                                                                                                                |
| [Us] rated supply voltage | 5 V DC SELV (voltage limits: 4.5...5.5 V)                                                                                                  |
| Current consumption       | < 7 mA                                                                                                                                     |
| Type of output signal     | Analogue                                                                                                                                   |
| Analogue output function  | 0.5...4.5 V, 3-wire                                                                                                                        |
| Quantity per set          | Set of 1                                                                                                                                   |
| Type of packing           | Individual                                                                                                                                 |

## Complementary

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure setting range                  | 0...16 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Maximum permissible accidental pressure | 48 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Destruction pressure                    | 96 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Materials in contact with fluid         | Stainless steel type AISI 303                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operating position                      | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protection type                         | Reverse polarity<br>Load short-circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Electromagnetic compatibility           | Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 2 kV<br>Electrostatic discharge immunity test conforming to IEC 61000-4-2 8 kV air, 4 kV contact<br>1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 1 kV 42 Ohm<br>Immunity to magnetic fields conforming to IEC 61000-4-8 100 A/m 50 Hz<br>Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 10 V/m 80...3000 MHz<br>Radiated RF fields conforming to 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                              | 0.1 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Diameter                                | 26 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Length                                  | 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Environment

|                                       |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| Standards                             | IEC 61326-2-3<br>NSF ANSI 61                                                                  |
| Product certifications                | RCM[RETURN]cULus[RETURN]CE                                                                    |
| Protective treatment                  | TC                                                                                            |
| Ambient air temperature for operation | -30...85 °C                                                                                   |
| Ambient air temperature for storage   | -50...100 °C                                                                                  |
| Vibration resistance                  | 20 gn (f = 15...2000 Hz) conforming to IEC 60068-2-6                                          |
| Shock resistance                      | 100 gn for 11 ms conforming to IEC 60068-2-27                                                 |
| IP degree of protection               | IP65 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP69K conforming to IEC 60529 |

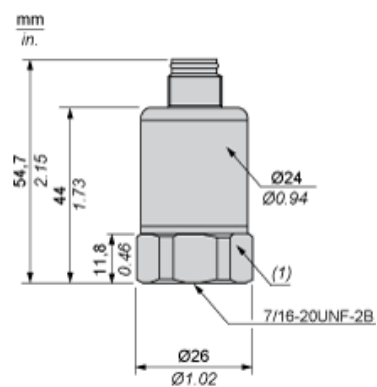
## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Height             | 4.2 cm |
| Package 1 Width              | 4.7 cm |
| Package 1 Length             | 8.7 cm |
| Package 1 Weight             | 94.0 g |

## 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 Diisodecyl 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 all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                   |

## Dimensions



(1) SW24 tightening torque  $\leq 10$  N.m / 221 lb-in

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## Wiring Diagram

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### 3-Wire Technique (0.5 – 4.5 V)



(a) V out

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Curves

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