

# XMEP100BV21F

Electronic pressure sensors, Pressure sensors XM, transmitter, XMEP, 100 bar, G1/4 A male, 4...20 mA, AMP Sup, 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      | XMEP                                                                           |
| Electrical circuit type   | Control circuit                                                                |
| Pressure rating           | 100 bar                                                                        |
| Local display             | Without                                                                        |
| Controlled fluid          | Fresh water (0...125 °C)<br>Air (-30...125 °C)<br>Hydraulic oil (-30...125 °C) |
| Fluid connection type     | G 1/4A (male) conforming to DIN 3852-E                                         |
| Electrical connection     | 1 male connector AMP SUPERSEAL 1.5 3 pins                                      |
| [Us] rated supply voltage | 12...24 V DC SELV (voltage limits: 9...36 V)                                   |
| Current consumption       | < 23 mA                                                                        |
| Type of output signal     | Analogue                                                                       |
| Analogue output function  | 4...20 mA, 2-wire                                                              |
| Quantity per set          | Set of 1                                                                       |
| Type of packing           | Individual                                                                     |

## Complementary

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure setting range                  | 0...100 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum permissible accidental pressure | 300 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Destruction pressure                    | 600 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Materials in contact with fluid         | Stainless steel AISI 316L<br>Fluorocarbon FPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating position                      | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Protection type                         | Reverse polarity<br>Load short-circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electromagnetic compatibility           | Electrostatic discharge immunity test conforming to ISO 10605 criteria A 15 kV air, 15 kV contact<br>Susceptibility to electromagnetic fields conforming to ISO 11452-2 criteria A 100 V/m 200...2000 MHz<br>Susceptibility to electromagnetic fields conforming to ISO 11452-4 criteria A 100 mA 20...400 MHz<br>Susceptibility to conducted disturbances conforming to EN/IEC 61000-4-6 criteria A 30 V 0.15...80 MHz<br>Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 criteria A 4 kV<br>Susceptibility to conducted transient disturbances conforming to ISO 7637-2 criteria B level 3 |
| [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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Long term stability                     | +/- 0.5 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical durability                   | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|            |          |
|------------|----------|
| Net weight | 0.098 kg |
| Diameter   | 26 mm    |
| Length     | 60.5 mm  |

## Environment

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | ECE 10R-5<br>EN 13309<br>UL 61010-1<br>EN/IEC 61326-2-3<br>ISO 13766<br>ISO 14982                                                  |
| Product certifications                | cULus[RETURN]E2[RETURN]CE                                                                                                          |
| Ambient air temperature for operation | -40...100 °C                                                                                                                       |
| Ambient air temperature for storage   | -50...100 °C                                                                                                                       |
| Vibration resistance                  | 12 gn sinus (f = 20...520 Hz) test 4 conforming to ISO 16750-3<br>18 gn random (f = 10...2000 Hz) test 4 conforming to ISO 16750-3 |
| Shock resistance                      | 50 gn for 11 ms conforming to EN/IEC 60068-2-27                                                                                    |
| IP degree of protection               | IP65 conforming to EN/IEC 60529<br>IP67 conforming to EN/IEC 60529                                                                 |

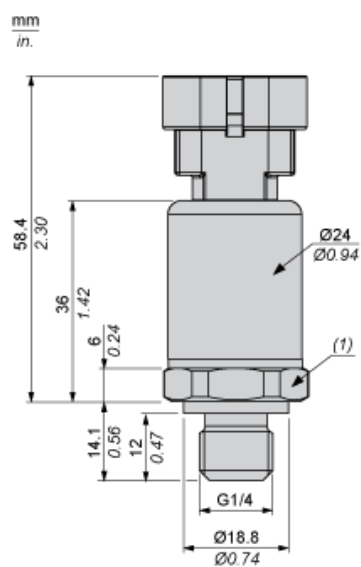
## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Height             | 4.1 cm |
| Package 1 Width              | 4.5 cm |
| Package 1 Length             | 8.5 cm |
| Package 1 Weight             | 97.0 g |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                            |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                         |
| 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



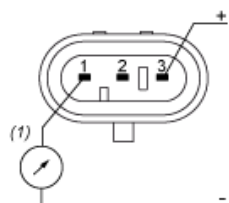
(1) SW24, tightening torque □ 24 N-m / 212 lb-in

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## Connections and Schema

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### Connector Wiring



(1) V out  
Pin Not connected  
2 :

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Performance Curves

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Curves

