OsiSense® XMLK Pressure sensors for pump applications
The ideal choice for water distribution

Water is a precious commodity. Conserving it protects the environment and sustains life. The new range of OsiSense® XMLK pressure sensors provides a high degree of accuracy for controlling water pressure in your pumping applications. Used in conjunction with Altivar® adjustable speed drives, XMLK sensors help you optimize motor efficiency and reduce the energy consumption of your pumps.

- Increase your profits
  A particularly economical product

- A simple-to-use product
  With multiple advantages

- A tested and validated solution
  Used in conjunction with an adjustable speed drive

Contents

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33% of the world population will be affected by the decline in drinking water by 2025

Make the most of your energySM
Increase your profits

OsiSense XMLK pressure sensors are economical products well suited to pump manufacturers for simple pumping applications. Using proven technology, these pressure sensors offer high performance and lower energy consumption. They are available in bulk, making unpacking easier and reducing packaging disposal.

A simple-to-use product with multiple advantages

8 sizes available: 6/10/16/25 bar or 100/150/200/300 psi

- Electrical connection using an M12, DIN or Metri-Pack connector
- Units of measurement in psi or bar
- Analog output 4–20 mA or 0–10 V
- Fluid entry G ¼ A (BSP male) or ¼”–18 NPT male

75% less packaging for environmental friendliness and to make life easier.
A tested and validated solution

Used in conjunction with Altivar adjustable speed drives, the OsiSense XMLK pressure sensor enables constant control of pressure within the network regardless of the flow rate. It provides information in real-time and enables the drive to control an entire installation.

Globally available range

Find all these pressure sensors on www.sesensors.com.
Electronic pressure sensors
OsiSense XM
For control circuits, type XMLK

Introduction
Type XMLK pressure transmitters are characterized by their ceramic pressure-measuring cell. Deformation, caused by pressure, changes the resistance of the resistors of a Wheatstone bridge silk-screened on the ceramic. The change in resistance is then processed by the integrated electronics to provide an analog output signal.

1 Electrical connection: for example, DIN EN 175301-803-A connector
2 Seals
3 Threaded fluid connection
4 Hybrid electronics
5 Ceramic measuring cell

Functions
XMLK pressure transmitters have an analog output, 4–20 mA or 0–10 V, which is proportional to the measuring range.

These compact products are available with various types of electrical connectors and fluid connections.

Standard versions are available calibrated in both bar and psi. The bulk packaging alternative offers an excellent price/performance ratio. XMLK electronic pressure sensors are designed for simple pumping applications and are well suited for pump equipment manufacturers.
## Environmental Specifications

### Conformity to standards
- **CE**: IEC/EN 60947-1, IEC/EN 60947-5-1, EN 50081-1, EN 50082-2, EN 61000-6-2
- **Product certifications**
  - UL: File E97729, CCN NKPZ
  - CSA: File 240515, Class 3211-03

### Rated supply voltage
- **V**: 24 V

### Voltage limits
- 4–20 mA: 8–33 V
- 0–10 V: 16.2–33 V

### Current consumption
- 4–20 mA: < 20 mA
- 0–10 V: < 6 mA

### Output signal
- 4–20 mA, 0–10 V

### Protective treatment
- Standard version: “TC”

### Ambient air temperature
- **For operation**
  - °C (°F): 0 to + 80 (32 to 176)
- **For storage**
  - °C (°F): -25 to + 85 (13 to 185)

### Fluids or products controlled
- Air, fresh water (0 to + 80 °C / 32 to 176 °F)

### Component materials in contact with fluid
- Steel, type AISI 303 (stainless steel)
- Nitrile (NBR)

### Operating position
- All positions

### Vibration resistance
- 20 gn (9–2000 Hz) conforming to IEC 60068-2-6

### Shock resistance
- 25 gn (half sine wave 11 ms) conforming to IEC 60068-2-27

### Resistance to electromagnetic interference
- **Electrostatic discharges**
  - Standard EN 61000-4-2, 8 kV in air, 6 kV on contact
- **Radiated electromagnetic fields**
  - Standard EN 61000-4-3, >10 V/m, 80–800 MHz
- **Fast transients**
  - Standard EN 61000-4-4, 2 kV
- **Surges**
  - Standard EN 61000-4-5, 500 V 12 Ω, 1 kV 42 Ω
- **Conducted disturbances, induced by radio frequency fields**
  - Standard EN 61000-4-6, 10 V 0.15–80 MHz
- **Magnetic fields**
  - Standard EN 61000-4-8, 30 A/m, 50 Hz

### Electrical protection
- Protected against reverse polarity and load short-circuit. For use on Class 2 circuit.
- **Rated impulse withstand voltage**
  - kV: 0.5

### Degree of protection
- **IP 65 conforming to IEC/EN 60529, NEMA 4**

### Output response time
- ms: < 2

### Repeat accuracy
- ± 0.3% of the measuring range

### Precision (resolution)
- Combined sum of linearity, hysteresis, and repeat accuracy <± 0.5% of the measuring range
- Setting tolerance of zero point and measuring range limit < ± 1% of the measuring range

### Drift
- **Of the zero point**
  - < ± 0.04% of the measuring range/°K
- **Of the sensitivity**
  - < ± 0.03% of the measuring range/°K

### Service life
- Operating cycles: > 10 million (varies based on application and environment)

### Fluid connection
- G 1/4 A (male) conforming to ISO 7, or 1/4”-18 NPT (male)

### Electrical connection
- Connector, either M12, DIN 43650A (DIN EN 175301-803-A) or Packard® Metri-Pack

### Interpretation of the catalog number

**Note**: Use this table only to interpret the catalog number. Some combinations are not available.

<table>
<thead>
<tr>
<th>XMLK</th>
<th>Units without display</th>
<th>Rated pressure</th>
<th>Unit of pressure</th>
<th>O-Ring</th>
<th>Electrical connection</th>
<th>Output</th>
<th>Fluid connection</th>
<th>Bulk pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 mm (1.42 in.) diameter</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>100</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>2</td>
<td>D</td>
<td>2</td>
<td>3</td>
<td>TQ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36 mm (1.42 in.) diameter</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>006</td>
<td>0–6</td>
<td>B: bar</td>
<td>2: NBR (Nitrile)</td>
<td>C: DIN 43650A</td>
<td>2: Analog, 4–20 mA</td>
<td>1: G 1/4 A (male)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>010</td>
<td>0–10</td>
<td>P: psi</td>
<td>D: M12</td>
<td>7: Analog, 0–10 V</td>
<td>3: 1/4”-18 NPT (male)</td>
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<td></td>
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</tr>
<tr>
<td>016</td>
<td>0–16</td>
<td></td>
<td>P: Packard Metri-Pack</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>025</td>
<td>0–25</td>
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<td></td>
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<td></td>
</tr>
<tr>
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<td>0–100</td>
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</tr>
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</table>
Electronic pressure sensors
OsiSense XM
Pressure transmitters type XMLK, bar version
With analog output 4–20 mA
Sizes 0 to 25 bar (0 to 362 psi)

Selection, specifications

Pressure transmitters type XMLK, bar version, DIN 43650A connector or M12 connector (1)

<table>
<thead>
<tr>
<th>DIN 43650A connector</th>
<th>M12 connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–6 bar (0–87 psi)</td>
<td></td>
</tr>
<tr>
<td>0–10 bar (0–145 psi)</td>
<td></td>
</tr>
<tr>
<td>0–16 bar (0–232 psi)</td>
<td></td>
</tr>
<tr>
<td>0–25 bar (0–362.5 psi)</td>
<td></td>
</tr>
</tbody>
</table>

Selection
Presssure transmitters XMLK, DIN 43650A connector

Sold in packs of:

Pressure transmitters XMLK, M12 connector

Sold in packs of:

Fluid connection (3)
- G 1/4 A (male)

Weight, kg (lb)
- 0.110 (.25)
- 0.110 (.25)
- 0.110 (.25)
- 0.110 (.25)

Additional specifications not shown under general specifications
- Rated supply voltage: 24 V
- Voltage limits: 8–33 V
- Output (4): 4–20 mA, 2-wire technique
- Current consumption: < 20 mA
- Maximum permissible accidental pressure: 12 bar (174 psi), 20 bar (290 psi), 32 bar (464 psi), 50 bar (725 psi)
- Destruction pressure: 18 bar (261 psi), 30 bar (435 psi), 48 bar (696 psi), 75 bar (1087.5 psi)
- Electrical connection:
  - M12 connector: M12, 3-pin male. For suitable female connectors, including pre-wired versions, see accessories on page 10.

(1) For other types of electrical connections, consult the Sensor Competency Center.
(2) Sold in lots of 25, minimum quantity 50.
(3) For other types of fluid connections, consult the Sensor Competency Center.
(4) For other types of output, consult the Sensor Competency Center.

Output curve
XMLK0eB2e21

Is (mA)

<table>
<thead>
<tr>
<th>DIN</th>
<th>M12</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Connector wiring: 2-wire technique (4–20 mA)
Electronic pressure sensors
OsiSense XM
Pressure transmitters type XMLK, bar version
With analog output 0–10 V
Sizes 0 to 25 bar (0 to 362 psi)

Pressure transmitters type XMLK, bar version, DIN 43650A connector or M12 connector (1)

<table>
<thead>
<tr>
<th>DIN 43650A connector</th>
<th>M12 connector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Selection**

**Pressure transmitters XMLK, DIN 43650A connector**

Sold in packs of:

|--------|---------------|---------------|---------------|---------------|

**Pressure transmitters XMLK, M12 connector**

Sold in packs of:

<table>
<thead>
<tr>
<th></th>
<th>XMLK006B2D71</th>
<th>XMLK010B2D71</th>
<th>XMLK016B2D71</th>
<th>XMLK025B2D71</th>
</tr>
</thead>
<tbody>
<tr>
<td>bulk</td>
<td>XMLK006B2D71TQ</td>
<td>XMLK010B2D71TQ</td>
<td>XMLK016B2D71TQ</td>
<td>XMLK025B2D71TQ</td>
</tr>
</tbody>
</table>

**Fluid connection (3)**

G 1/4 A (male)

**Weight, kg (lb)**

<table>
<thead>
<tr>
<th></th>
<th>0.110 (.25)</th>
<th>0.110 (.25)</th>
<th>0.110 (.25)</th>
<th>0.110 (.25)</th>
</tr>
</thead>
</table>

**Additional specifications not shown under general specifications**

- **Rated supply voltage**: 24 V
- **Voltage limits**: 16.2–33 V
- **Output (4)**
  - 0–10 V, 3-wire technique
- **Current consumption**: ≤ 6 mA
- **Maximum permissible accidental pressure**: 12 bar (174 psi), 20 bar (290 psi), 32 bar (464 psi), 50 bar (725 psi)
- **Destruction pressure**: 18 bar (261 psi), 30 bar (435 psi), 48 bar (696 psi), 75 bar (1087.5 psi)
- **Electrical connection**
  - M12 connector: M12, 3-pin male. For suitable female connectors, including pre-wired versions, see accessories on page 10.

(1) For other types of electrical connections, consult the Sensor Competency Center.
(2) Sold in lots of 25, minimum quantity 50.
(3) For other types of fluid connections, consult the Sensor Competency Center.
(4) For other types of output, consult the Sensor Competency Center.

**Output curve**

XMLK006B2C71

**Connector wiring**: 3-wire technique (0–10 V)
### Electronic pressure sensors

**OsiSense XM**
Pressure transmitters type XMLK, psi version
With analog output 4–20 mA
Sizes 0 to 300 psi (0 to 20.7 bar)

#### Pressure transmitters type XMLK, psi version, DIN 43650A, M12 or Packard connector (1)

<table>
<thead>
<tr>
<th>DIN 43650A connector</th>
<th>M12 connector</th>
<th>Packard connector</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Selection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure transmitters XMLK, DIN 43650A connector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sold in packs of:</td>
<td>1</td>
<td>DIN 43650A connector</td>
</tr>
<tr>
<td>bulk (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure transmitters XMLK, M12 connector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sold in packs of:</td>
<td>1</td>
<td>DIN 43650A connector</td>
</tr>
<tr>
<td>bulk (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure transmitters XMLK, Packard connector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sold in packs of:</td>
<td>1</td>
<td>DIN 43650A connector</td>
</tr>
<tr>
<td>bulk (2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Fluid connection (3)
1/4”-18 NPT male

#### Weight, kg (lb)
<table>
<thead>
<tr>
<th>DIN 43650A connector</th>
<th>M12 connector</th>
<th>Packard connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.110 (.25)</td>
<td>0.110 (.25)</td>
<td>0.110 (.25)</td>
</tr>
</tbody>
</table>

#### Additional specifications not shown under general specifications
- Rated supply voltage: 24 V
- Voltage limits: 8–33 V
- Output (4): 4–20 mA, 2-wire technique
- Current consumption: < 20 mA
- Maximum permissible accidental pressure: 200 psi (13.8 bar) 300 psi (20.7 bar) 400 psi (27.5 bar) 600 psi (41 bar)
- Destruction pressure: 300 psi (20.7 bar) 450 psi (31 bar) 600 psi (41 bar) 900 psi (62 bar)
- Electrical connection:
  - DIN 43650A connector: EN 175301-803-A (male). For suitable female connector see accessories on page 10
  - M12 connector: M12, 3-pin male. For suitable female connectors, including pre-wired versions, see accessories on page 10.
  - Packard connector: 3-pin Delphi® (Packard) Metri-Pack 150 series.

### Output curve

**XMLK100P2C23**

<table>
<thead>
<tr>
<th>P (psi)</th>
<th>DIN M12 Packard</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>+</td>
</tr>
<tr>
<td>20</td>
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<tr>
<td>40</td>
<td>+</td>
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<td>60</td>
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<tr>
<td>80</td>
<td>+</td>
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<td>100</td>
<td>+</td>
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<td>120</td>
<td>+</td>
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<td>140</td>
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<td>+</td>
</tr>
<tr>
<td>260</td>
<td>+</td>
</tr>
<tr>
<td>280</td>
<td>+</td>
</tr>
<tr>
<td>300</td>
<td>+</td>
</tr>
</tbody>
</table>

**Connector wiring:** 2-wire technique (4–20 mA)

(1) For other types of electrical connections, consult the Sensor Competency Center.
(2) Sold in lots of 25, minimum quantity 50.
(3) For other types of fluid connections, consult the Sensor Competency Center.
(4) For other types of output, consult the Sensor Competency Center.
## Selection, specifications (continued)

### Electronic pressure sensors
**OsiSense XM**
Pressure transmitters type XMLK, psi version
With analog output 0–10 V
Sizes 0 to 300 psi (0 to 20.7 bar)

### Pressure transmitters type XMLK, PSI version, DIN 43650A, M12 or Packard connector

<table>
<thead>
<tr>
<th>DIN 43650A connector</th>
<th>M12 connector</th>
<th>Packard connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMLK100P2C73</td>
<td>XMLK100P2C73</td>
<td>XMLK100P2C73</td>
</tr>
<tr>
<td>XMLK150P2C73</td>
<td>XMLK150P2C73</td>
<td>XMLK150P2C73</td>
</tr>
<tr>
<td>XMLK200P2C73</td>
<td>XMLK200P2C73</td>
<td>XMLK200P2C73</td>
</tr>
<tr>
<td>XMLK300P2C73</td>
<td>XMLK300P2C73</td>
<td>XMLK300P2C73</td>
</tr>
</tbody>
</table>

### Selection
- **Pressure transmitters XMLK, DIN 43650A connector**
  - Sold in packs of: 1
  - XMLK100P2C73 XMLK150P2C73 XMLK200P2C73 XMLK300P2C73
  - Bulk (2)

- **Pressure transmitters XMLK, M12 connector**
  - Sold in packs of: 1
  - XMLK100P2D73 XMLK150P2D73 XMLK200P2D73 XMLK300P2D73
  - Bulk (2)

- **Pressure transmitters XMLK, Packard connector**
  - Sold in packs of: 1
  - XMLK100P2P73 XMLK150P2P73 XMLK200P2P73 XMLK300P2P73
  - Bulk (2)

### Fluid connection
- 1/4"-18 NPT male

### Weight, kg (lb)
- 0.110 (.25) 0.110 (.25) 0.110 (.25) 0.110 (.25)

### Additional specifications not shown under general specifications
- **Rated supply voltage**: 24 V
- **Voltage limits**: 16.2–33 V
- **Output (4)**: 0–10 V, 3-wire technique
- **Current consumption**: ≤ 6 mA
- **Maximum permissible accidental pressure**: 200 psi (13.8 bar) 300 psi (20.7 bar) 400 psi (27.5 bar) 600 psi (41 bar)
- ** Destruction pressure**: 300 psi (20.7 bar) 450 psi (31 bar) 600 psi (41 bar) 900 psi (62 bar)
- **Electrical connection**
  - M12 connector: M12, 3-pin male. For suitable female connectors, including pre-wired versions, see accessories on page 10.
  - Packard connector: 3-pin Delphi (Packard) Melzi-Pack 150 series.

### Output curve
- **XMLK100P2P73**
  - Connector wiring: 3-wire technique (0–10 V)
  - DIN
  - M12
  - Packard

(1) For other types of electrical connections, consult the Sensor Competency Center.
(2) Sold in lots of 25, minimum quantity 50.
(3) For other types of fluid connections, consult the Sensor Competency Center.
(4) For other types of output, consult the Sensor Competency Center.

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**Schneider Electric**

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9
**Connection accessories**

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Reference</th>
<th>Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 female connector, metal clamping ring (1)</td>
<td>Straight</td>
<td>XZCC12FDM40B</td>
<td>0.020 (0.04)</td>
</tr>
<tr>
<td></td>
<td>Elbowed</td>
<td>XZCC12FCM40B</td>
<td>0.020 (0.04)</td>
</tr>
<tr>
<td>DIN 43650A female connector</td>
<td></td>
<td>XZCC43FCP40B</td>
<td>0.035 (0.08)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Cable Length</th>
<th>Reference</th>
<th>Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-wired M12, straight female connectors</td>
<td>2 m</td>
<td>XZCP1141L2</td>
<td>0.090 (0.20)</td>
</tr>
<tr>
<td></td>
<td>5 m</td>
<td>XZCP1141L5</td>
<td>0.190 (0.42)</td>
</tr>
<tr>
<td></td>
<td>10 m</td>
<td>XZCP1141L10</td>
<td>0.370 (0.82)</td>
</tr>
<tr>
<td>Pre-wired M12, elbowed female connectors</td>
<td>2 m</td>
<td>XZCP1241L2</td>
<td>0.090 (0.20)</td>
</tr>
<tr>
<td></td>
<td>5 m</td>
<td>XZCP1241L5</td>
<td>0.190 (0.42)</td>
</tr>
<tr>
<td></td>
<td>10 m</td>
<td>XZCP1241L10</td>
<td>0.370 (0.82)</td>
</tr>
</tbody>
</table>

(1) Connector with screw terminal connections.

**Connector wiring (pressure sensor connector pin view)**

**Pressure transmitters XMLK**

### 2-wire technique (4–20 mA)

<table>
<thead>
<tr>
<th>DIN</th>
<th>M12</th>
<th>Packard</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Diagram 2-wire" /></td>
<td><img src="image" alt="Diagram 12" /></td>
<td><img src="image" alt="Diagram Packard" /></td>
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</tbody>
</table>

### 3-wire technique (0–10 V)

<table>
<thead>
<tr>
<th>DIN</th>
<th>M12</th>
<th>Packard</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Diagram 3-wire" /></td>
<td><img src="image" alt="Diagram 12" /></td>
<td><img src="image" alt="Diagram Packard" /></td>
</tr>
</tbody>
</table>
## Dimensions

### XMLK, DIN connector

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>NPT</th>
<th>G 1/4 A (male)</th>
</tr>
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<tbody>
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<td>XMLK, DIN connector</td>
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<tr>
<td>G 1/4 A (male)</td>
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<td>1.417</td>
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<td>Ø 36</td>
<td>0.5</td>
<td>.343</td>
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### XMLK, M12 connector

<table>
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### XMLK, Packard connector

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</table>

Dimensions = mm / in.