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# Electronic sensors for pressure control

## OsiSense XM

### Catalogue



Simply easy!™



# Electronic pressure sensors

## OsiSense XM

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### Pressure transmitters, type XMLP

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### Pressure sensors with 4-digit display, type XMLR

|                                        |                 |
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# Electronic pressure sensors

## OsiSense XM

Pressure transmitters type XMLP

Compact metal body, 304 stainless steel fluid entry

With analog output

### Presentation

XMLP pressure transmitters are characterized by their "thin film" technology. The stainless steel capsule holding the sensing element is welded directly onto the transmitter stainless steel body, which provides the following advantages:

- no gasket comes into contact with the fluid
- compatibility with a large number of fluids:
  - hydraulic oils
  - air
  - fresh water
  - refrigeration fluids
  - all fluids or gases compatible with AISI 304 stainless steel

XMLP pressure transmitters can control fluids from -30 to 120°C.

Their power supply depends on the type of analog output:

- 5 V +/-10% for the 0.5...4.5 V ratiometric output
- 12 or 24 V (nominal), operating from 8 to 30 V for the 4...20 mA output
- 24 V (nominal), operating from 14 to 30 V for the 0...10 V output

Made of 304 stainless steel, XMLP pressure transmitters are compact and rugged.

Their protection index varies according to the type of connector:

- IP 65 for EN 175301-803-A connector versions
- IP 65 and IP 67 for Packard Metri-Pack connector versions
- IP 65, IP 67 and IP 69K for M12 connector versions

With typical precision better than 0.5 % of the rating, these transmitters are particularly suitable for industrial applications such as:

- machine tools
- moulding presses
- stamping presses
- lifting gear
- air-conditioning systems (HVAC)

### Functions

XMLP pressure transmitters have an analog output which delivers a signal that is proportional to the measured pressure. This output can be one of the following types:

- 4...20 mA
- 0...10 V
- 0.5...4.5 V

The pressure ranges available are:

- 0...10 bar to 0...600 bar or
- 0...100 psi to 0...10,000 psi

The XMLP offer is available in three types of electrical connection:

- M12, 4-pin connector
- EN 175301-803-A connector (ex-DIN 43650)
- Packard Metri-Pack 150 connector

Several types of fluid connection are available:

- G1/4 A male
- SAE 7/16-20 UNF-2A male
- SAE 7/16-20 UNF-2B female
- 1/4"-18NPT male

XMLP transmitters are sold individually or in lots of 40.

# Electronic pressure sensors

OsiSense XM

Pressure transmitters type XMLP

Compact metal body, stainless steel 304 fluid entry

With analog output. Sizes in bar



XMLP010BD●1V  
XMLP016BD●1V



XMLP010BC●1V  
XMLP016BC●1V



XMLP010BD●7  
XMLP016BD●7



XMLP010BC●7  
XMLP016BC●7



XMLP010BD●9  
XMLP016BD●9



XMLP010BC●9  
XMLP016BC●9

## 0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 20 bar, destruction pressure: 30 bar

G 1/4 A male DIN 3852-E fluid connection

| Analog output type      | Electrical connection | Reference (1) | Weight kg |
|-------------------------|-----------------------|---------------|-----------|
| 4...20 mA               | M12                   | XMLP010BD21V  | 0.050     |
| 4...20 mA               | EN 175301-803-A       | XMLP010BC21V  | 0.050     |
| 0...10 V                | M12                   | XMLP010BD71V  | 0.050     |
| 0...10 V                | EN 175301-803-A       | XMLP010BC71V  | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | XMLP010BD11V  | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | XMLP010BC11V  | 0.050     |

SAE 7/16-20UNF-2A male fluid connection

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP010BD27 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP010BC27 | 0.050 |
| 0...10 V                | M12             | XMLP010BD77 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP010BC77 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP010BD17 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP010BC17 | 0.050 |

SAE 7/16-20UNF-2B female fluid connection

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP010BD29 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP010BC29 | 0.050 |
| 0...10 V                | M12             | XMLP010BD79 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP010BC79 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP010BD19 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP010BC19 | 0.050 |

## 0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 32 bar, destruction pressure: 48 bar

G 1/4 A male DIN 3852-E fluid connection

| Analog output type      | Electrical connection | Reference (1) | Weight kg |
|-------------------------|-----------------------|---------------|-----------|
| 4...20 mA               | M12                   | XMLP016BD21V  | 0.050     |
| 4...20 mA               | EN 175301-803-A       | XMLP016BC21V  | 0.050     |
| 0...10 V                | M12                   | XMLP016BD71V  | 0.050     |
| 0...10 V                | EN 175301-803-A       | XMLP016BC71V  | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | XMLP016BD11V  | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | XMLP016BC11V  | 0.050     |

SAE 7/16-20UNF-2A male fluid connection

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP016BD27 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP016BC27 | 0.050 |
| 0...10 V                | M12             | XMLP016BD77 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP016BC77 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP016BD17 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP016BC17 | 0.050 |

SAE 7/16-20UNF-2B female fluid connection

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP016BD29 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP016BC29 | 0.050 |
| 0...10 V                | M12             | XMLP016BD79 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP016BC79 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP016BD19 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP016BC19 | 0.050 |

(1) Sold in lots of 40: add Q at the end of the reference. Example: XMLP016BD27 becomes XMLP016BD27Q.

## Electronic pressure sensors

## OsiSense XM

Pressure transmitters type XMLP

Compact metal body, stainless steel 304 fluid entry

With analog output. Sizes in bar

XMLP025BD●1V  
XMLP040BD●1VXMLP025BC●1V  
XMLP040BC●1VXMLP025BD●7  
XMLP040BD●7XMLP025BC●7  
XMLP040BC●7XMLP025BD●9  
XMLP040BD●9XMLP025BC●9  
XMLP040BC●9**0 to 25 bar (0 to 362.5 psi)**

Maximum permissible accidental pressure: 50 bar, destruction pressure: 75 bar

G 1/4 A male DIN 3852-E fluid connection

| Analog output type      | Electrical connection | Reference (1) | Weight kg |
|-------------------------|-----------------------|---------------|-----------|
| 4...20 mA               | M12                   | XMLP025BD21V  | 0.050     |
| 4...20 mA               | EN 175301-803-A       | XMLP025BC21V  | 0.050     |
| 0...10 V                | M12                   | XMLP025BD71V  | 0.050     |
| 0...10 V                | EN 175301-803-A       | XMLP025BC71V  | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | XMLP025BD11V  | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | XMLP025BC11V  | 0.050     |

**SAE 7/16-20UNF-2A male fluid connection**

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP025BD27 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP025BC27 | 0.050 |
| 0...10 V                | M12             | XMLP025BD77 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP025BC77 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP025BD17 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP025BC17 | 0.050 |

**SAE 7/16-20UNF-2B female fluid connection**

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP025BD29 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP025BC29 | 0.050 |
| 0...10 V                | M12             | XMLP025BD79 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP025BC79 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP025BD19 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP025BC19 | 0.050 |

**0 to 40 bar (0 to 580 psi)**

Maximum permissible accidental pressure: 80 bar, destruction pressure: 120 bar

G 1/4 A male DIN 3852-E fluid connection

| Analog output type      | Electrical connection | Reference (1) | Weight kg |
|-------------------------|-----------------------|---------------|-----------|
| 4...20 mA               | M12                   | XMLP040BD21V  | 0.050     |
| 4...20 mA               | EN 175301-803-A       | XMLP040BC21V  | 0.050     |
| 0...10 V                | M12                   | XMLP040BD71V  | 0.050     |
| 0...10 V                | EN 175301-803-A       | XMLP040BC71V  | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | XMLP040BD11V  | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | XMLP040BC11V  | 0.050     |

**SAE 7/16-20UNF-2A male fluid connection**

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP040BD27 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP040BC27 | 0.050 |
| 0...10 V                | M12             | XMLP040BD77 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP040BC77 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP040BD17 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP040BC17 | 0.050 |

**SAE 7/16-20UNF-2B female fluid connection**

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP040BD29 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP040BC29 | 0.050 |
| 0...10 V                | M12             | XMLP040BD79 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP040BC79 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP040BD19 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP040BC19 | 0.050 |

(1) Sold in lots of 40: add Q at the end of the reference. Example: XMLP040BD21V becomes XMLP040BD21VQ.

# Electronic pressure sensors

## OsiSense XM

Pressure transmitters type XMLP

Compact metal body, stainless steel 304 fluid entry

With analog output. Sizes in bar



XMLP060BD●1V  
XMLP100BD●2



XMLP060BC●1V  
XMLP100BC●2



XMLP060BD●7



XMLP060BC●7



XMLP060BD●9



XMLP060BC●9

### 0 to 60 bar (0 to 870 psi)

Maximum permissible accidental pressure: 120 bar, destruction pressure: 180 bar

G 1/4 A male DIN 3852-E fluid connection

| Analog output type      | Electrical connection | Reference (1) | Weight kg |
|-------------------------|-----------------------|---------------|-----------|
| 4...20 mA               | M12                   | XMLP060BD21V  | 0.050     |
| 4...20 mA               | EN 175301-803-A       | XMLP060BC21V  | 0.050     |
| 0...10 V                | M12                   | XMLP060BD71V  | 0.050     |
| 0...10 V                | EN 175301-803-A       | XMLP060BC71V  | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | XMLP060BD11V  | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | XMLP060BC11V  | 0.050     |

### SAE 7/16-20UNF-2A male fluid connection

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP060BD27 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP060BC27 | 0.050 |
| 0...10 V                | M12             | XMLP060BD77 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP060BC77 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP060BD17 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP060BC17 | 0.050 |

### SAE 7/16-20UNF-2B female fluid connection

|                         |                 |             |       |
|-------------------------|-----------------|-------------|-------|
| 4...20 mA               | M12             | XMLP060BD29 | 0.050 |
| 4...20 mA               | EN 175301-803-A | XMLP060BC29 | 0.050 |
| 0...10 V                | M12             | XMLP060BD79 | 0.050 |
| 0...10 V                | EN 175301-803-A | XMLP060BC79 | 0.050 |
| 0.5...4.5 V ratiometric | M12             | XMLP060BD19 | 0.050 |
| 0.5...4.5 V ratiometric | EN 175301-803-A | XMLP060BC19 | 0.050 |

### 0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 200 bar, destruction pressure: 300 bar

G 1/4 A male DIN 3852-A fluid connection

| Analog output type      | Electrical connection | Reference (1) | Weight kg |
|-------------------------|-----------------------|---------------|-----------|
| 4...20 mA               | M12                   | XMLP100BD22   | 0.050     |
| 4...20 mA               | EN 175301-803-A       | XMLP100BC22   | 0.050     |
| 0...10 V                | M12                   | XMLP100BD72   | 0.050     |
| 0...10 V                | EN 175301-803-A       | XMLP100BC72   | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | XMLP100BD12   | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | XMLP100BC12   | 0.050     |

(1) Sold in lots of 40: add Q at the end of the reference. Example: XMLP060BD21V becomes XMLP060BD21VQ.

## Electronic pressure sensors

## OsiSense XM

Pressure transmitters type XMLP

Compact metal body, stainless steel 304 fluid entry

With analog output. Sizes in bar



XMLP●●0BD●2



XMLP●●0BC●2

**0 to 160 bar (0 to 2320 psi)**

Maximum permissible accidental pressure: 320 bar, destruction pressure: 400 bar

G 1/4 A male DIN 3852-A fluid connection

| Analog output type      | Electrical connection | Reference (1)      | Weight kg |
|-------------------------|-----------------------|--------------------|-----------|
| 4...20 mA               | M12                   | <b>XMLP160BD22</b> | 0.050     |
| 4...20 mA               | EN 175301-803-A       | <b>XMLP160BC22</b> | 0.050     |
| 0...10 V                | M12                   | <b>XMLP160BD72</b> | 0.050     |
| 0...10 V                | EN 175301-803-A       | <b>XMLP160BC72</b> | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | <b>XMLP160BD12</b> | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | <b>XMLP160BC12</b> | 0.050     |

**0 to 250 bar (0 to 3625 psi)**

Maximum permissible accidental pressure: 375 bar, destruction pressure: 500 bar

G 1/4 A male DIN 3852-A fluid connection

| Analog output type      | Electrical connection | Reference (1)      | Weight kg |
|-------------------------|-----------------------|--------------------|-----------|
| 4...20 mA               | M12                   | <b>XMLP250BD22</b> | 0.050     |
| 4...20 mA               | EN 175301-803-A       | <b>XMLP250BC22</b> | 0.050     |
| 0...10 V                | M12                   | <b>XMLP250BD72</b> | 0.050     |
| 0...10 V                | EN 175301-803-A       | <b>XMLP250BC72</b> | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | <b>XMLP250BD12</b> | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | <b>XMLP250BC12</b> | 0.050     |

**0 to 400 bar (0 to 5800 psi)**

Maximum permissible accidental pressure: 600 bar, destruction pressure: 800 bar

G 1/4 A male DIN 3852-A fluid connection

| Analog output type      | Electrical connection | Reference (1)      | Weight kg |
|-------------------------|-----------------------|--------------------|-----------|
| 4...20 mA               | M12                   | <b>XMLP400BD22</b> | 0.050     |
| 4...20 mA               | EN 175301-803-A       | <b>XMLP400BC22</b> | 0.050     |
| 0...10 V                | M12                   | <b>XMLP400BD72</b> | 0.050     |
| 0...10 V                | EN 175301-803-A       | <b>XMLP400BC72</b> | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | <b>XMLP400BD12</b> | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | <b>XMLP400BC12</b> | 0.050     |

**0 to 600 bar (0 to 8700 psi)**

Maximum permissible accidental pressure: 900 bar, destruction pressure: 1200 bar

G 1/4 A male DIN 3852-A fluid connection

| Analog output type      | Electrical connection | Reference (1)      | Weight kg |
|-------------------------|-----------------------|--------------------|-----------|
| 4...20 mA               | M12                   | <b>XMLP600BD22</b> | 0.050     |
| 4...20 mA               | EN 175301-803-A       | <b>XMLP600BC22</b> | 0.050     |
| 0...10 V                | M12                   | <b>XMLP600BD72</b> | 0.050     |
| 0...10 V                | EN 175301-803-A       | <b>XMLP600BC72</b> | 0.050     |
| 0.5...4.5 V ratiometric | M12                   | <b>XMLP600BD12</b> | 0.050     |
| 0.5...4.5 V ratiometric | EN 175301-803-A       | <b>XMLP600BC12</b> | 0.050     |

(1) Sold in lots of 40: add Q at the end of the reference. Example: **XMLP160BD22** becomes **XMLP160BD22Q**.



# Electronic pressure sensors

## OsiSense XM

Pressure transmitters type XMLP

Compact metal body, stainless steel 304 fluid entry

With analog output. Sizes in psi



XMLP●●●PD●3



XMLP●●●PP●3

### 0 to 100 psi (0 to 6.9 bar)

Maximum permissible accidental pressure: 200 psi, destruction pressure: 300 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP100PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP100PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP100PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP100PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP100PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP100PP13   | 0.050     |

### 0 to 150 psi (0 to 10.3 bar)

Maximum permissible accidental pressure: 300 psi, destruction pressure: 450 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP150PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP150PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP150PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP150PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP150PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP150PP13   | 0.050     |

### 0 to 200 psi (0 to 13.8 bar)

Maximum permissible accidental pressure: 400 psi, destruction pressure: 600 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP200PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP200PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP200PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP200PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP200PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP200PP13   | 0.050     |

### 0 to 300 psi (0 to 20.7 bar)

Maximum permissible accidental pressure: 600 psi, destruction pressure: 900 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP300PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP300PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP300PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP300PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP300PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP300PP13   | 0.050     |

### 0 to 600 psi (0 to 41.4 bar)

Maximum permissible accidental pressure: 1200 psi, destruction pressure: 1800 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP600PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP600PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP600PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP600PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP600PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP600PP13   | 0.050     |

(1) Sold in lots of 40: add Q at the end of the reference. Example: XMLP150PD23 becomes XMLP150PD23Q.

# Electronic pressure sensors

## OsiSense XM

Pressure transmitters type XMLP

Compact metal body, stainless steel 304 fluid entry

With analog output. Sizes in psi



XMLP...PD...3



XMLP...PP...3

### 0 to 1000 psi (0 to 69 bar)

Maximum permissible accidental pressure: 2000 psi,  
destruction pressure: 3000 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP1K0PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP1K0PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP1K0PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP1K0PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP1K0PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP1K0PP13   | 0.050     |

### 0 to 2000 psi (0 to 138 bar)

Maximum permissible accidental pressure: 4000 psi,  
destruction pressure: 5000 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP2K0PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP2K0PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP2K0PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP2K0PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP2K0PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP2K0PP13   | 0.050     |

### 0 to 3000 psi (0 to 207 bar)

Maximum permissible accidental pressure: 4500 psi,  
destruction pressure: 6000 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP3K0PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP3K0PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP3K0PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP3K0PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP3K0PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP3K0PP13   | 0.050     |

### 0 to 6000 psi (0 to 414 bar)

Maximum permissible accidental pressure: 9000 psi,  
destruction pressure: 12 000 psi

1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP6K0PD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP6K0PP23   | 0.050     |
| 0...10 V                | M12                    | XMLP6K0PD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP6K0PP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP6K0PD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP6K0PP13   | 0.050     |

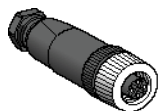
### 0 to 10 000 psi (0 to 690 bar)

Maximum permissible accidental pressure: 13 050 psi,  
destruction pressure: 17 400 psi

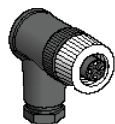
1/4" - 18NPT male fluid connection

| Analog output type      | Electrical connection  | Reference (1) | Weight kg |
|-------------------------|------------------------|---------------|-----------|
| 4...20 mA               | M12                    | XMLP10KPD23   | 0.050     |
| 4...20 mA               | Packard Metri-Pack 150 | XMLP10KPP23   | 0.050     |
| 0...10 V                | M12                    | XMLP10KPD73   | 0.050     |
| 0...10 V                | Packard Metri-Pack 150 | XMLP10KPP73   | 0.050     |
| 0.5...4.5 V ratiometric | M12                    | XMLP10KPD13   | 0.050     |
| 0.5...4.5 V ratiometric | Packard Metri-Pack 150 | XMLP10KPP13   | 0.050     |

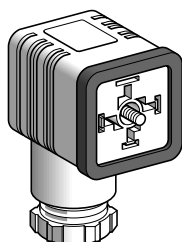
(1) Sold in lots of 40: add Q at the end of the reference. Example: XMLP1K0PD23 becomes XMLP1K0PD23Q.



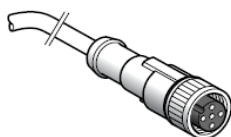
XZCC12FDM40B



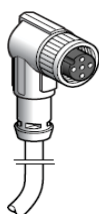
XZCC12FCM40B



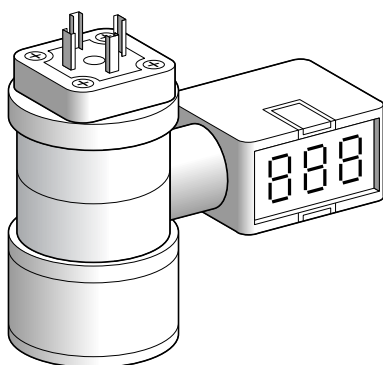
XZCC43FCP40B



XZCP1141L10



XZCP1241L5



XMLEZ...

## Connection accessories

| Description                                  | Type     | Reference    | Weight<br>kg |
|----------------------------------------------|----------|--------------|--------------|
| M12 female connector metal clamping ring (1) | Straight | XZCC12FDM40B | 0.020        |
|                                              | Elbowed  | XZCC12FCM40B | 0.020        |

|                                      |   |              |       |
|--------------------------------------|---|--------------|-------|
| EN 175301-803-A female connector (1) | — | XZCC43FCP40B | 0.035 |
|--------------------------------------|---|--------------|-------|

| Description                                | Lenght of cable | Material of cable | Reference    | Weight<br>kg |
|--------------------------------------------|-----------------|-------------------|--------------|--------------|
| Pre-wired M12, straight, female connectors | 2 m             | PUR               | XZCP1141L2   | 0.090        |
|                                            |                 | PVC               | XZCPV1141L2  | 0.110        |
|                                            | 5 m             | PUR               | XZCP1141L5   | 0.190        |
|                                            |                 | PVC               | XZCPV1141L5  | 0.210        |
|                                            | 10 m            | PUR               | XZCP1141L10  | 0.370        |
|                                            |                 | PVC               | XZCPV1141L10 | 0.390        |
| Pre-wired M12, elbowed, female connectors  | 2 m             | PUR               | XZCP1241L2   | 0.090        |
|                                            |                 | PVC               | XZCPV1241L2  | 0.110        |
|                                            | 5 m             | PUR               | XZCP1241L5   | 0.190        |
|                                            |                 | PVC               | XZCPV1241L5  | 0.210        |
|                                            | 10 m            | PUR               | XZCP1241L10  | 0.370        |
|                                            |                 | PVC               | XZCPV1241L10 | 0.390        |

| Description                                    | For use with | Sensor size<br>bar | Reference | Weight<br>kg |
|------------------------------------------------|--------------|--------------------|-----------|--------------|
| Digital displays for analogue pressure sensors | XMLP010BC2●● | 0...10             | XMLEZ010  | 0.100        |
|                                                | XMLP025BC2●● | 0...25             | XMLEZ025  | 0.100        |
|                                                | XMLP060BC2●● | 0...60             | XMLEZ060  | 0.100        |
|                                                | XMLP100BC2●● | 0...100            | XMLEZ100  | 0.100        |
|                                                | XMLP250BC2●● | 0...250            | XMLEZ250  | 0.100        |
|                                                | XMLP600BC2●● | 0...600            | XMLEZ600  | 0.100        |

(1) Connector with screw terminal connections.

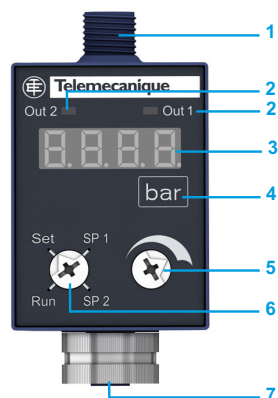
**Note:** For other cabling accessories, please refer to our "Cabling accessories OsiSense XZ" catalogue.



Example of remote mounting  
(with jumper cable and fixing  
bracket).



Example of direct mounting  
on the pressure transmitter.



### Presentation

Combined with a pressure transmitter, the ZMLP switch with display converts an analog signal into one or two switching outputs with adjustable thresholds. It can also be used to display the measured pressure. One of 27 display ranges, from -14.5 to 6000, can be selected for this purpose, meaning the switch can adapt to the majority of pressure transmitters, whether calibrated in bar, psi or pascal.

Depending on the model, ZMLP switches with display are available with different output configurations:

- one 4...20 mA analog output and one switching output, PNP or NPN type, hysteresis or window switching mode
- two switching outputs, PNP or NPN type, hysteresis switching mode (fixed hysteresis)

### Compact and robust:

Its compact housing made of Valox™ PBT and polyester front face provide it with IP65, IP67 and IP69K degrees of protection, making it suitable for the harshest environments. These products are for a nominal supply voltage of 24 V  $\overline{\text{DC}}$  and have a 17 to 33 V  $\overline{\text{DC}}$  operating range.

### Simplicity of setup:

These products must be connected to an electronic pressure transmitter with 4...20 mA analog output and 4-pin M12 connector.

They can be mounted:

- Directly on the pressure transmitter. The product body can be turned through 300°, enabling optimum orientation of the display and settings.
- Or mounted remotely, up to 20 metres from the transmitter, using a simple jumper cable. In this case, clever design accessories allow the product to be fixed in place quickly, horizontally, vertically or even directly on the pressure inlet pipe.

### Description

- 1 4-pin male M12 output connector, for connection to an automation platform.
- 2 Indicator LEDs displaying the output status (LED lit when the output has been activated).
- 3 7 segments/4-digit display.
- 4 Pressure unit indication, bar by default, psi, kPa or MPa by the addition of an adhesive label supplied with the product.
- 5 Potentiometer for selecting the display size and adjusting the switching threshold values.
- 6 4-position rotary switch for selecting the parameter to be configured.
- 7 4-pin female M12 connector, for connection to the pressure transmitter.

### Functions

#### Configurable functions

##### For the display:

- pressure unit (bar, psi, kPa and MPa)
- 27 display ranges can be selected, from -14.5 to 6000

##### For the solid-state output(s):

- NO or NC contact

##### Locking/unlocking:

- In order to avoid losing the product settings accidentally, the product can be locked. The settings cannot then be changed.

#### Fast diagnostic function

- Illumination of all the display segments on each power-up, enabling checking of their operation.

## Electronic pressure sensors

OsiSense XM

Switches with 4-digit display, type ZMLP



ZMLPA1•2SH



ZMLPA1•2SW



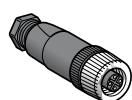
ZMLPA2•0SH



XMLPZLH01



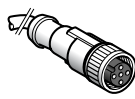
XMLPZLV01



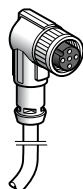
XZCC12FDM40B



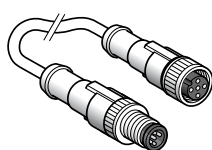
XZCC12MCM40B



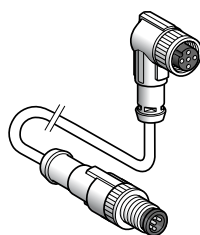
XZCP1141L•



XZCP1241L•



XZCR1511040A•



XZCR1512040A•

## Switches with display

## for OsiSense XMLP pressure transmitters (1)

| Analog output type | Solid-state output type | Switching mode | Reference  | Weight kg |
|--------------------|-------------------------|----------------|------------|-----------|
| 4...20 mA          | 1 x PNP                 | Hysteresis     | ZMLPA1P2SH | 0.104     |
|                    |                         | Window         | ZMLPA1P2SW | 0.104     |
|                    | 1 x NPN                 | Hysteresis     | ZMLPA1N2SH | 0.104     |
|                    |                         | Window         | ZMLPA1N2SW | 0.104     |
| –                  | 2 x PNP                 | Hysteresis     | ZMLPA2P0SH | 0.104     |
| –                  | 2 x NPN                 | Hysteresis     | ZMLPA2N0SH | 0.104     |

## Fixing brackets

## for ZMLP switches with display

| Description                                             | Reference | Weight kg |
|---------------------------------------------------------|-----------|-----------|
| Metal bracket for fixing horizontally                   | XMLPZLH01 | 0.012     |
| Metal bracket for fixing vertically or on an inlet pipe | XMLPZLV01 | 0.024     |

## Cabling accessories

| Type                                                               | Length of cable<br>m | Reference    | Weight<br>kg |
|--------------------------------------------------------------------|----------------------|--------------|--------------|
| <b>4-pin M12 connectors, for connection on screw terminals (2)</b> |                      |              |              |
| Straight female connector                                          | –                    | XZCC12FDM40B | 0.020        |
| Elbowed female connector                                           | –                    | XZCC12FCM40B | 0.020        |
| Straight male connector                                            | –                    | XZCC12MDM40B | 0.025        |
| Elbowed male connector                                             | –                    | XZCC12MCM40B | 0.025        |

## Pre-wired M12, 4-pin connectors (PUR cable)

|                           |    |             |       |
|---------------------------|----|-------------|-------|
| Straight female connector | 2  | XZCP1141L2  | 0.090 |
|                           | 5  | XZCP1141L5  | 0.190 |
|                           | 10 | XZCP1141L10 | 0.370 |
|                           | 15 | XZCP1141L15 | 0.500 |
|                           | 20 | XZCP1141L20 | 0.750 |
| Elbowed female connector  | 2  | XZCP1241L2  | 0.090 |
|                           | 5  | XZCP1241L5  | 0.190 |
|                           | 10 | XZCP1241L10 | 0.370 |
|                           | 15 | XZCP1241L15 | 0.500 |
|                           | 20 | XZCP1241L20 | 0.750 |

## M12-M12, 3-pin jumper cables (PUR cable) (2)

|                                                   |   |               |       |
|---------------------------------------------------|---|---------------|-------|
| Straight male and female connectors               | 1 | XZCR1511040A1 | 0.065 |
|                                                   | 2 | XZCR1511040A2 | 0.095 |
| Straight male connector, elbowed female connector | 1 | XZCR1512040A1 | 0.065 |
|                                                   | 2 | XZCR1512040A2 | 0.095 |

(1) For XMLP••••D2• pressure transmitters (see pages 4 to 9).

Switches with display are also compatible with XMLG••••D2• and XMLK••••D2• pressure transmitters. Please consult our "OsiSense XM sensors for pressure control" catalogue.

(2) For connecting the pressure transmitter to the switch with display, in the case of remote mounting.

# Electronic pressure sensors

## OsiSense XM

Pressure sensors with 4-digit display, type XMLR

### OsiSense XMLR

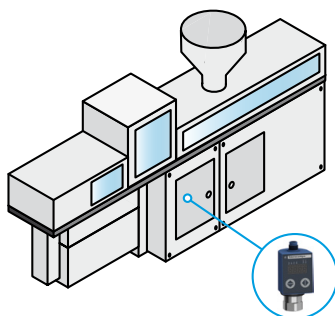
Pressure sensors are used to control and measure pressure or vacuum levels in hydraulic or pneumatic systems.

They transform the pressure into an electrical signal. They then produce an analogue output which is proportional to the measured pressure and/or one or two switching outputs for which the switching point can be adjusted.

The high precision and performance of OsiSense XMLR pressure sensors makes them suitable for numerous industrial applications requiring pressure/vacuum display, control or regulation.

### Easy to mount

Minimize installation time and effort. Mounting is easy and flexible with the compact-sized, rotating body and reversed display function.



*With its compact size, the OsiSense XMLR pressure sensor is easily integrated in the machine.*

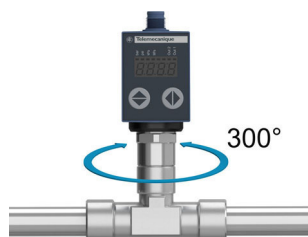
### Compact size

> With a height of just 88 to 100 mm depending on the pressure range and the fluid entry type, OsiSense XMLR is one of the most compact pressure switches on the market.



### Rotating body

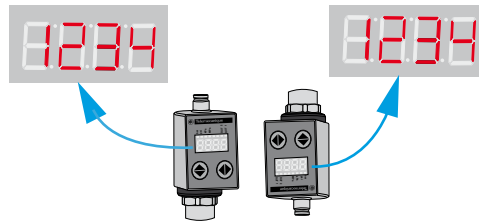
> The body of the OsiSense XMLR pressure sensor can be rotated 300°, thus enabling the front face of the product to be orientated as required following connection to the pressure inlet pipe.



### Easy to mount (continued)

#### Display inversion function

> The display can be inverted vertically to adapt to the sensor's installation position.



### Easy to set up

#### Menu naming and structure based on VDMA\* standard

> The ergonomic design of OsiSense XMLR sets a new standard for ease of configuration.

#### Navigation using just two pushbuttons

> Two simple pushbuttons are all that is needed to navigate through an intuitive menu structured according to VDMA\* 24574-1 standard.



- 1 Pushbutton to display a value or parameter or to save a selected value or parameter and return to the menu.
- 2 Pushbutton to scroll from one menu to another or to increase a value or change a parameter

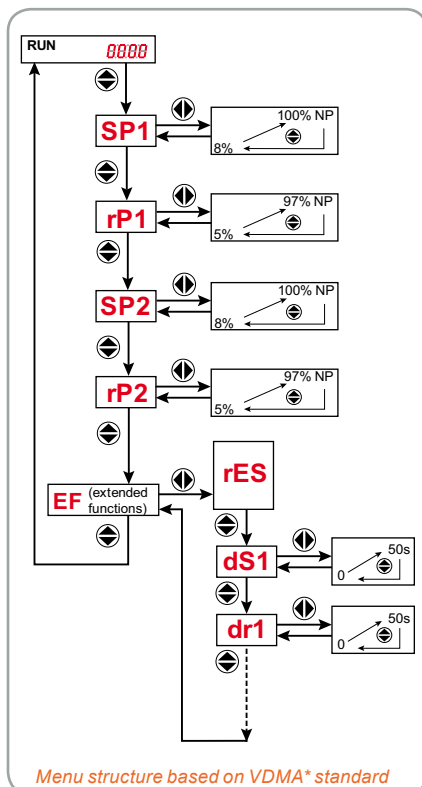
### Easy to maintain

At each device start up, all segments of the display light up briefly to confirm that it is operating correctly.

The device can be tested using a diagnostic function which checks the whole electronic signal processing chain. This function is accessible via the "Dia" menu. It can be activated directly by the PLC by remote control via the test input (on products which only have one analogue output).

OsiSense XMLR pressure sensors also include a recording of the high and low pressure values measured since the last reset. These values can be displayed via the Hi and Lo menus.

\* VDMA: Verband Deutscher Maschinen und Anlagenbau e. V.





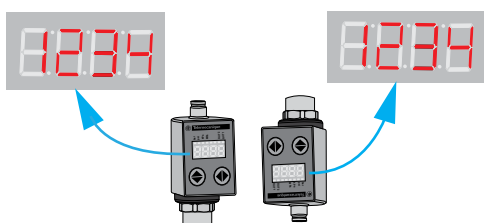
# Electronic pressure sensors

## OsiSense XM

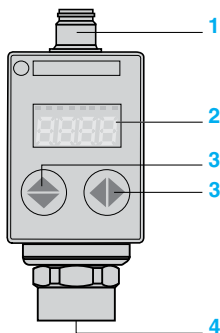
Pressure sensors with 4-digit display, type XMLR

Compact plastic body, stainless steel 316L fluid entry

With analogue and solid-state outputs



Reversed display function



### Presentation

Electronic pressure sensors type XMLR are used for pressure control of hydraulic oils, fresh water, air and refrigerant fluids, between -1 and 600 bar.

Depending on the model, XMLR sensors are available with different configurations in order to meet the highest number of requirements:

- one analogue output, 4...20 mA or 0...10 V, proportional to the measuring range,
- one analogue output and one switching output, PNP or NPN type,
- two switching outputs, PNP or NPN type,
- one analogue output (4...20 mA) and two switching outputs, PNP or NPN type.

### Compact and robust:

The stainless steel 316L fluid entry and glass-fiber-reinforced polyarylamide body provide the XMLR pressure sensors with excellent mechanical resistance, improved corrosion resistance and an P65/IP67 degree of protection. These products are for a nominal supply voltage of 24 V  $\square$  and have a 17 to 33 V  $\square$  operating range.

They are particularly suitable for:

- Moulding and thermoforming presses
- Injection machines
- Pneumatic systems and assembly machinery
- Hydraulic systems of lifting and handling equipment
- Pumping and fresh water treatment

### Compact

88 mm to 100 mm overall, depending on model.

### Simplicity of setting-up

The body of the OsiSense XMLR pressure sensor can be turned through 300°, thus enabling the front face of the product to be orientated as required following connection to the pressure inlet pipe.

In addition, the reversed display function simplifies reading in the event of upside down mounting (fluid entry from above).

### Description

- 1 M12 male connector, 4 or 5-pin depending on model.
- 2 4-digit, 7 segment display and LED indicator for pressure unit and output state (LED on when the output is activated).
- 3 Navigation keys for setting and configuring the menus (conforming to VDMA 24574).
- 4 Fluid entry: G 1/4 female, 1/4"-18NPT female or SAE 7/16-20UNF female, depending on model.

### Functions

#### Configurable functions

##### For the display:

- Pressure unit of measurement (bar, psi, kPa or MPa).
- Display refresh time: fast (50 ms), normal (200 ms), slow (600 ms).
- 180° reversed display function.
- Display off: power saving mode.

##### For the analogue output (4...20 mA or 0...10 V):

- Offset compensation in the range of  $\pm 5\%$  of the nominal pressure.
- Adjustment of analogue end point between 75 and 125% of the nominal pressure.

##### For each solid-state output:

- NO or NC contact
- Switching mode of outputs: Hysteresis (pumping) or Window (control).
- Time delay both on trip and on reset (adjustable from 0 to 50 s, in steps of 1 s).

##### Locking/unlocking:

- The product can be locked to prevent unintended resetting. All means of adjusting the settings are then disabled.

#### Fast diagnostic functions

- Illumination of all the segments of the display on each power-up, enabling checking of their operation.
- Diagnostic function for checking correct operation of the sensor.
- Saving of min. and max. pressures measured by the sensor and their subsequent display.



# Electronic pressure sensors

## OsiSense XM

Pressure sensors with 4-digit display, type XMLR

Compact plastic body, stainless steel 316L fluid entry

With analogue and solid-state outputs



XMLR●●●G●●●5



XMLR●●●G●●●6

### -1 to 0 bar (-14.5 to 0 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 3 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | —                       | XMLRM01G0T25 | 0.190     |
| 0...10 V             | —                       | XMLRM01G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLRM01G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLRM01G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLRM01G1P75 | 0.190     |
| 0...10 V             | 1 x NPN                 | XMLRM01G1N75 | 0.190     |
| —                    | 2 x PNP                 | XMLRM01G2P05 | 0.190     |
| —                    | 2 x NPN                 | XMLRM01G2N05 | 0.190     |
| 4...20 mA            | 2 x PNP                 | XMLRM01G2P25 | 0.190     |
| 4...20 mA            | 2 x NPN                 | XMLRM01G2N25 | 0.190     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | —       | XMLRM01G0T26 | 0.212 |
| 4...20 mA | 1 x PNP | XMLRM01G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLRM01G1N26 | 0.212 |
| —         | 2 x PNP | XMLRM01G2P06 | 0.212 |
| —         | 2 x NPN | XMLRM01G2N06 | 0.212 |
| 4...20 mA | 2 x PNP | XMLRM01G2P26 | 0.212 |
| 4...20 mA | 2 x NPN | XMLRM01G2N26 | 0.212 |

### 0 to 1 bar (0 to 14.5 psi)

Maximum permissible accidental pressure: 7 bar, destruction pressure: 7 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | —                       | XMLR001G0T25 | 0.190     |
| 0...10 V             | —                       | XMLR001G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLR001G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLR001G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLR001G1P75 | 0.190     |
| 0...10 V             | 1 x NPN                 | XMLR001G1N75 | 0.190     |
| —                    | 2 x PNP                 | XMLR001G2P05 | 0.190     |
| —                    | 2 x NPN                 | XMLR001G2N05 | 0.190     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | —       | XMLR001G0T26 | 0.212 |
| 0...10 V  | —       | XMLR001G0T76 | 0.212 |
| 4...20 mA | 1 x PNP | XMLR001G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLR001G1N26 | 0.212 |
| —         | 2 x PNP | XMLR001G2P06 | 0.212 |
| —         | 2 x NPN | XMLR001G2N06 | 0.212 |

### 0 to 2.5 bar (0 to 36.2 psi)

Maximum permissible accidental pressure: 12 bar, destruction pressure: 12 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | —                       | XMLR2D5G0T25 | 0.190     |
| 0...10 V             | —                       | XMLR2D5G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLR2D5G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLR2D5G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLR2D5G1P75 | 0.190     |
| 0...10 V             | 1 x NPN                 | XMLR2D5G1N75 | 0.190     |
| —                    | 2 x PNP                 | XMLR2D5G2P05 | 0.190     |
| —                    | 2 x NPN                 | XMLR2D5G2N05 | 0.190     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | 1 x PNP | XMLR2D5G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLR2D5G1N26 | 0.212 |
| —         | 2 x PNP | XMLR2D5G2P06 | 0.212 |
| —         | 2 x NPN | XMLR2D5G2N06 | 0.212 |

# Electronic pressure sensors

## OsiSense XM

Pressure sensors with 4-digit display, type XMLR

Compact plastic body, stainless steel 316L fluid entry

With analogue and solid-state outputs



XMLR●●●G●●●5



XMLR●●●G●●●6  
XMLR●●●G●●●9

### 0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 40 bar, destruction pressure: 40 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR010G0T25 | 0.190     |
| 0...10 V             | –                       | XMLR010G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLR010G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLR010G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLR010G1P75 | 0.190     |
| 0...10 V             | 1 x NPN                 | XMLR010G1N75 | 0.190     |
| –                    | 2 x PNP                 | XMLR010G2P05 | 0.190     |
| –                    | 2 x NPN                 | XMLR010G2N05 | 0.190     |
| 4...20 mA            | 2 x PNP                 | XMLR010G2P25 | 0.190     |
| 4...20 mA            | 2 x NPN                 | XMLR010G2N25 | 0.190     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR010G0T26 | 0.212 |
| 0...10 V  | –       | XMLR010G0T76 | 0.212 |
| 4...20 mA | 1 x PNP | XMLR010G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLR010G1N26 | 0.212 |
| 0...10 V  | 1 x PNP | XMLR010G1P76 | 0.212 |
| 0...10 V  | 1 x NPN | XMLR010G1N76 | 0.212 |
| –         | 2 x PNP | XMLR010G2P06 | 0.212 |
| –         | 2 x NPN | XMLR010G2N06 | 0.212 |
| 4...20 mA | 2 x PNP | XMLR010G2P26 | 0.212 |
| 4...20 mA | 2 x NPN | XMLR010G2N26 | 0.212 |

SAE 7/16-20UNF-2B female fluid connection

|   |         |              |       |
|---|---------|--------------|-------|
| – | 2 x PNP | XMLR010G2P09 | 0.210 |
| – | 2 x NPN | XMLR010G2N09 | 0.210 |

### 0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 62 bar, destruction pressure: 62 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR016G0T25 | 0.190     |
| 0...10 V             | –                       | XMLR016G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLR016G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLR016G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLR016G1P75 | 0.190     |
| –                    | 2 x PNP                 | XMLR016G2P05 | 0.190     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR016G0T26 | 0.212 |
| 4...20 mA | 1 x PNP | XMLR016G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLR016G1N26 | 0.212 |
| –         | 2 x PNP | XMLR016G2P06 | 0.212 |
| –         | 2 x NPN | XMLR016G2N06 | 0.212 |

### 0 to 25 bar (0 to 362 psi)

Maximum permissible accidental pressure: 100 bar, destruction pressure: 100 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR025G0T25 | 0.190     |
| 0...10 V             | –                       | XMLR025G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLR025G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLR025G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLR025G1P75 | 0.190     |
| 0...10 V             | 1 x NPN                 | XMLR025G1N75 | 0.190     |
| –                    | 2 x PNP                 | XMLR025G2P05 | 0.190     |
| –                    | 2 x NPN                 | XMLR025G2N05 | 0.190     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR025G0T26 | 0.212 |
| 4...20 mA | 1 x PNP | XMLR025G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLR025G1N26 | 0.212 |
| –         | 2 x PNP | XMLR025G2P06 | 0.212 |
| –         | 2 x NPN | XMLR025G2N06 | 0.212 |

# Electronic pressure sensors

## OsiSense XM

Pressure sensors with 4-digit display, type XMLR

Compact plastic body, stainless steel 316L fluid entry

With analogue and solid-state outputs



XMLR...G...5



XMLR...G...6

XMLR...M...5  
XMLR...M...6

XMLR...M...9

### 0 to 40 bar (0 to 580 psi)

Maximum permissible accidental pressure: 150 bar, destruction pressure: 150 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR040G0T25 | 0.190     |
| 0...10 V             | –                       | XMLR040G0T75 | 0.190     |
| 4...20 mA            | 1 x PNP                 | XMLR040G1P25 | 0.190     |
| 4...20 mA            | 1 x NPN                 | XMLR040G1N25 | 0.190     |
| 0...10 V             | 1 x PNP                 | XMLR040G1P75 | 0.190     |
| 0...10 V             | 1 x NPN                 | XMLR040G1N75 | 0.190     |
| –                    | 2 x PNP                 | XMLR040G2P05 | 0.190     |
| –                    | 2 x NPN                 | XMLR040G2N05 | 0.190     |
| 4...20 mA            | 2 x PNP                 | XMLR040G2P25 | 0.190     |
| 4...20 mA            | 2 x NPN                 | XMLR040G2N25 | 0.190     |

### 1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR040G0T26 | 0.212 |
| 4...20 mA | 1 x PNP | XMLR040G1P26 | 0.212 |
| 4...20 mA | 1 x NPN | XMLR040G1N26 | 0.212 |
| –         | 2 x PNP | XMLR040G2P06 | 0.212 |
| –         | 2 x NPN | XMLR040G2N06 | 0.212 |

### 0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 300 bar, destruction pressure: 600 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR100M0T25 | 0.186     |
| 0...10 V             | –                       | XMLR100M0T75 | 0.186     |
| 4...20 mA            | 1 x PNP                 | XMLR100M1P25 | 0.186     |
| 4...20 mA            | 1 x NPN                 | XMLR100M1N25 | 0.186     |
| 0...10 V             | 1 x PNP                 | XMLR100M1P75 | 0.186     |
| 0...10 V             | 1 x NPN                 | XMLR100M1N75 | 0.186     |
| –                    | 2 x PNP                 | XMLR100M2P05 | 0.186     |
| –                    | 2 x NPN                 | XMLR100M2N05 | 0.186     |

### 1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR100M0T26 | 0.186 |
| 4...20 mA | 1 x PNP | XMLR100M1P26 | 0.186 |
| 4...20 mA | 1 x NPN | XMLR100M1N26 | 0.186 |
| –         | 2 x PNP | XMLR100M2P06 | 0.186 |
| –         | 2 x NPN | XMLR100M2N06 | 0.186 |

### 0 to 160 bar (0 to 2320 psi)

Maximum permissible accidental pressure: 480 bar, destruction pressure: 960 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR160M0T25 | 0.186     |
| 0...10 V             | –                       | XMLR160M0T75 | 0.186     |
| 4...20 mA            | 1 x PNP                 | XMLR160M1P25 | 0.186     |
| 4...20 mA            | 1 x NPN                 | XMLR160M1N25 | 0.186     |
| 0...10 V             | 1 x PNP                 | XMLR160M1P75 | 0.186     |
| 0...10 V             | 1 x NPN                 | XMLR160M1N75 | 0.186     |
| –                    | 2 x PNP                 | XMLR160M2P05 | 0.186     |
| –                    | 2 x NPN                 | XMLR160M2N05 | 0.186     |

### SAE 7/16-20UNF-2B female fluid connection

|   |         |              |       |
|---|---------|--------------|-------|
| – | 2 x PNP | XMLR160M2P09 | 0.212 |
| – | 2 x NPN | XMLR160M2N09 | 0.212 |

# Electronic pressure sensors

## OsiSense XM

Pressure sensors with 4-digit display, type XMLR

Compact plastic body, stainless steel 316L fluid entry

With analogue and solid-state outputs



XMLR...M...5  
XMLR...M...6



XMLR...M...9

### 0 to 250 bar (0 to 3625 psi)

Maximum permissible accidental pressure: 750 bar, destruction pressure: 1500 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR250M0T25 | 0.186     |
| 0...10 V             | –                       | XMLR250M0T75 | 0.186     |
| 4...20 mA            | 1 x PNP                 | XMLR250M1P25 | 0.186     |
| 4...20 mA            | 1 x NPN                 | XMLR250M1N25 | 0.186     |
| 0...10 V             | 1 x PNP                 | XMLR250M1P75 | 0.186     |
| 0...10 V             | 1 x NPN                 | XMLR250M1N75 | 0.186     |
| –                    | 2 x PNP                 | XMLR250M2P05 | 0.186     |
| –                    | 2 x NPN                 | XMLR250M2N05 | 0.186     |
| 4...20 mA            | 2 x PNP                 | XMLR250M2P25 | 0.186     |
| 4...20 mA            | 2 x NPN                 | XMLR250M2N25 | 0.186     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR250M0T26 | 0.186 |
| 4...20 mA | 1 x PNP | XMLR250M1P26 | 0.186 |
| 4...20 mA | 1 x NPN | XMLR250M1N26 | 0.186 |
| 0...10 V  | 1 x PNP | XMLR250M1P76 | 0.186 |
| –         | 2 x PNP | XMLR250M2P06 | 0.186 |
| –         | 2 x NPN | XMLR250M2N06 | 0.186 |

SAE 7/16-20UNF-2B female fluid connection

|   |         |              |       |
|---|---------|--------------|-------|
| – | 2 x PNP | XMLR250M2P09 | 0.212 |
| – | 2 x NPN | XMLR250M2N09 | 0.212 |

### 0 to 400 bar (0 to 5800 psi)

Maximum permissible accidental pressure: 1200 bar, destruction pressure: 2400 bar

G 1/4 female DIN 3852-Y fluid connection

| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR400M0T25 | 0.186     |
| 0...10 V             | –                       | XMLR400M0T75 | 0.186     |
| 4...20 mA            | 1 x PNP                 | XMLR400M1P25 | 0.186     |
| 4...20 mA            | 1 x NPN                 | XMLR400M1N25 | 0.186     |
| 0...10 V             | 1 x PNP                 | XMLR400M1P75 | 0.186     |
| 0...10 V             | 1 x NPN                 | XMLR400M1N75 | 0.186     |
| –                    | 2 x PNP                 | XMLR400M2P05 | 0.186     |
| –                    | 2 x NPN                 | XMLR400M2N05 | 0.186     |
| 4...20 mA            | 2 x PNP                 | XMLR400M2P25 | 0.186     |
| 4...20 mA            | 2 x NPN                 | XMLR400M2N25 | 0.186     |

1/4"-18NPT female fluid connection

|           |         |              |       |
|-----------|---------|--------------|-------|
| 4...20 mA | –       | XMLR400M0T26 | 0.186 |
| 4...20 mA | 1 x PNP | XMLR400M1P26 | 0.186 |
| 4...20 mA | 1 x NPN | XMLR400M1N26 | 0.186 |
| –         | 2 x PNP | XMLR400M2P06 | 0.186 |
| –         | 2 x NPN | XMLR400M2N06 | 0.186 |

### 0 to 600 bar (0 to 8700 psi)

Maximum permissible accidental pressure: 1500 bar, destruction pressure: 2500 bar

G 1/4 female fluid connection

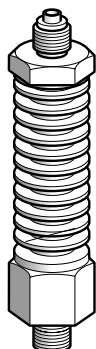
| Analogue output type | Solid-state output type | Reference    | Weight kg |
|----------------------|-------------------------|--------------|-----------|
| 4...20 mA            | –                       | XMLR600M0T25 | 0.186     |
| 0...10 V             | –                       | XMLR600M0T75 | 0.186     |
| 4...20 mA            | 1 x PNP                 | XMLR600M1P25 | 0.186     |
| 0...10 V             | 1 x PNP                 | XMLR600M1P75 | 0.186     |
| –                    | 2 x PNP                 | XMLR600M2P05 | 0.186     |

# Electronic pressure sensors

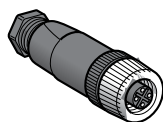
## OsiSense XM

Pressure sensors with 4-digit display, type XMLR

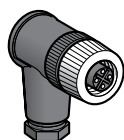
### Accessories



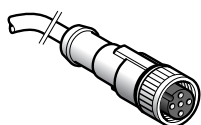
XMLZL009



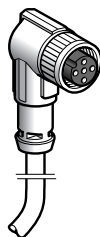
XZCC12FDM●0B



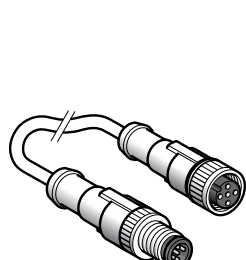
XZCC12FCM●0B



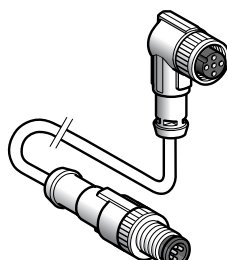
XZCP1141L●



XZCP1241L●



XZCR15110●●●●



XZCR15120●●●●

### Accessories

| Description                                                                                                                 | For use with | Reference | Weight<br>kg |
|-----------------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|
| Cooler with G 1/4 A (male)<br>fluid connections<br>Usage temperature:<br>150 °C for the fluid,<br>50 °C for the ambient air | XMLR●●●●●●●5 | XMLZL009  | 0.370        |

### Connectors

| Description                                           | For use with                                                                 | Type     | Reference    | Weight<br>kg |
|-------------------------------------------------------|------------------------------------------------------------------------------|----------|--------------|--------------|
| M12 female connector,<br>4-pin<br>Metal clamping ring | XMLR●●●●0T●●<br>XMLR●●●●1P●●<br>XMLR●●●●1N●●<br>XMLR●●●●2P0●<br>XMLR●●●●2N0● | Straight | XZCC12FDM40B | 0.020        |
|                                                       |                                                                              | Elbowed  | XZCC12FCM40B | 0.020        |
| M12 female connector,<br>5-pin<br>Metal clamping ring | XMLR●●●●2P2●<br>XMLR●●●●2N2●                                                 | Straight | XZCC12FDM50B | 0.020        |
|                                                       |                                                                              | Elbowed  | XZCC12FCM50B | 0.020        |

### Pre-wired connectors and jumper cables (PUR cable)

| Description                                                      | For use with                                                 | Type                            | Length<br>of cable<br>m | Reference     | Weight<br>kg |
|------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------|-------------------------|---------------|--------------|
| Pre-wired M12 female<br>connectors, 4-pin<br>Metal clamping ring | XMLR●●●●0T●●<br>XMLR●●●●1●●●<br>XMLR●●●●2P0●<br>XMLR●●●●2N0● | Straight                        | 2                       | XZCP1141L2    | 0.090        |
|                                                                  |                                                              |                                 | 5                       | XZCP1141L5    | 0.190        |
|                                                                  |                                                              |                                 | 10                      | XZCP1141L10   | 0.370        |
|                                                                  |                                                              | Elbowed                         | 2                       | XZCP1241L2    | 0.090        |
|                                                                  |                                                              |                                 | 5                       | XZCP1241L5    | 0.190        |
|                                                                  |                                                              |                                 | 10                      | XZCP1241L10   | 0.370        |
| M12-M12<br>4-pin<br>jumper cables                                | XMLR●●●●0T●●<br>XMLR●●●●1●●●<br>XMLR●●●●2P0●<br>XMLR●●●●2N0● | Straight<br>female<br>connector | 1                       | XZCR1511041C1 | 0.100        |
|                                                                  |                                                              |                                 | 2                       | XZCR1511041C2 | 0.100        |
|                                                                  |                                                              | Elbowed<br>female<br>connector  | 1                       | XZCR1512041C1 | 0.100        |
|                                                                  |                                                              |                                 | 2                       | XZCR1512041C2 | 0.100        |
| M12-M12<br>5-pin<br>jumper cables                                | XMLR●●●●2P2●<br>XMLR●●●●2N2●                                 | Straight<br>female<br>connector | 1                       | XZCR1511064D1 | 0.100        |
|                                                                  |                                                              |                                 | 2                       | XZCR1511064D2 | 0.100        |
|                                                                  |                                                              | Elbowed<br>female<br>connector  | 1                       | XZCR1512064D1 | 0.100        |
|                                                                  |                                                              |                                 | 2                       | XZCR1512064D2 | 0.100        |

|               |   |               |   |               |   |              |    |              |    |
|---------------|---|---------------|---|---------------|---|--------------|----|--------------|----|
| X             |   | XMPLP016BC27  | 3 | XMPLP060BD11V | 5 | XMPLP600BC72 | 6  | XMLR010G2P26 | 16 |
| XMLEZ010      | 9 | XMPLP016BC29  | 3 | XMPLP060BD17  | 5 | XMPLP600BD12 | 6  | XMLR016G0T25 | 16 |
| XMLEZ025      | 9 | XMPLP016BC71V | 3 | XMPLP060BD19  | 5 | XMPLP600BD22 | 6  | XMLR016G0T26 | 16 |
| XMLEZ060      | 9 | XMPLP016BC77  | 3 | XMPLP060BD21V | 5 | XMPLP600BD72 | 6  | XMLR016G0T75 | 16 |
| XMLEZ100      | 9 | XMPLP016BC79  | 3 | XMPLP060BD27  | 5 | XMPLP600PD13 | 7  | XMLR016G1N25 | 16 |
| XMLEZ250      | 9 | XMPLP016BD11V | 3 | XMPLP060BD29  | 5 | XMPLP600PD23 | 7  | XMLR016G1N26 | 16 |
| XMLEZ600      | 9 | XMPLP016BD17  | 3 | XMPLP060BD71V | 5 | XMPLP600PD73 | 7  | XMLR016G1P25 | 16 |
| XMPLP1K0PD13  | 8 | XMPLP016BD19  | 3 | XMPLP060BD77  | 5 | XMPLP600PP13 | 7  | XMLR016G1P26 | 16 |
| XMPLP1K0PD23  | 8 | XMPLP016BD21V | 3 | XMPLP060BD79  | 5 | XMPLP600PP23 | 7  | XMLR016G1P75 | 16 |
| XMPLP1K0PD73  | 8 | XMPLP016BD27  | 3 | XMPLP100BC12  | 5 | XMPLP600PP73 | 7  | XMLR016G2N06 | 16 |
| XMPLP1K0PP13  | 8 | XMPLP016BD29  | 3 | XMPLP100BC22  | 5 | XMPLPZLH01   | 11 | XMLR016G2P05 | 16 |
| XMPLP1K0PP23  | 8 | XMPLP016BD71V | 3 | XMPLP100BC72  | 5 | XMPLPZLV01   | 11 | XMLR016G2P06 | 16 |
| XMPLP1K0PP73  | 8 | XMPLP016BD77  | 3 | XMPLP100BD12  | 5 | XMLR001G0T25 | 15 | XMLR025G0T25 | 16 |
| XMPLP2K0PD13  | 8 | XMPLP016BD79  | 3 | XMPLP100BD22  | 5 | XMLR001G0T26 | 15 | XMLR025G0T26 | 16 |
| XMPLP2K0PD23  | 8 | XMPLP025BC11V | 4 | XMPLP100BD72  | 5 | XMLR001G0T75 | 15 | XMLR025G0T75 | 16 |
| XMPLP2K0PD73  | 8 | XMPLP025BC17  | 4 | XMPLP100PD13  | 7 | XMLR001G0T76 | 15 | XMLR025G1N25 | 16 |
| XMPLP2K0PP13  | 8 | XMPLP025BC19  | 4 | XMPLP100PD23  | 7 | XMLR001G1N25 | 15 | XMLR025G1N26 | 16 |
| XMPLP2K0PP23  | 8 | XMPLP025BC21V | 4 | XMPLP100PD73  | 7 | XMLR001G1N26 | 15 | XMLR025G1N75 | 16 |
| XMPLP2K0PP73  | 8 | XMPLP025BC27  | 4 | XMPLP100PP13  | 7 | XMLR001G1N75 | 15 | XMLR025G1P25 | 16 |
| XMPLP3K0PD13  | 8 | XMPLP025BC29  | 4 | XMPLP100PP23  | 7 | XMLR001G1P25 | 15 | XMLR025G1P26 | 16 |
| XMPLP3K0PD23  | 8 | XMPLP025BC71V | 4 | XMPLP100PP73  | 7 | XMLR001G1P26 | 15 | XMLR025G1P75 | 16 |
| XMPLP3K0PD73  | 8 | XMPLP025BC77  | 4 | XMPLP150PD13  | 7 | XMLR001G1P75 | 15 | XMLR025G2N05 | 16 |
| XMPLP3K0PP13  | 8 | XMPLP025BC79  | 4 | XMPLP150PD23  | 7 | XMLR001G2N05 | 15 | XMLR025G2N06 | 16 |
| XMPLP3K0PP23  | 8 | XMPLP025BD11V | 4 | XMPLP150PD73  | 7 | XMLR001G2N06 | 15 | XMLR025G2P05 | 16 |
| XMPLP3K0PP73  | 8 | XMPLP025BD17  | 4 | XMPLP150PP13  | 7 | XMLR001G2P05 | 15 | XMLR025G2P06 | 16 |
| XMPLP6K0PD13  | 8 | XMPLP025BD19  | 4 | XMPLP150PP23  | 7 | XMLR001G2P06 | 15 | XMLR040G0T25 | 17 |
| XMPLP6K0PD23  | 8 | XMPLP025BD21V | 4 | XMPLP150PP73  | 7 | XMLR2D5G0T25 | 15 | XMLR040G0T26 | 17 |
| XMPLP6K0PD73  | 8 | XMPLP025BD27  | 4 | XMPLP160BC12  | 6 | XMLR2D5G0T75 | 15 | XMLR040G0T75 | 17 |
| XMPLP6K0PP13  | 8 | XMPLP025BD29  | 4 | XMPLP160BC22  | 6 | XMLR2D5G1N25 | 15 | XMLR040G1N25 | 17 |
| XMPLP6K0PP23  | 8 | XMPLP025BD71V | 4 | XMPLP160BC72  | 6 | XMLR2D5G1N26 | 15 | XMLR040G1N26 | 17 |
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| XMPLP010BC17  | 3 | XMPLP040BC11V | 4 | XMPLP160BD72  | 6 | XMLR2D5G1P26 | 15 | XMLR040G1P26 | 17 |
| XMPLP010BC19  | 3 | XMPLP040BC17  | 4 | XMPLP200PD13  | 7 | XMLR2D5G1P75 | 15 | XMLR040G1P75 | 17 |
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| XMPLP010BC27  | 3 | XMPLP040BC21V | 4 | XMPLP200PD73  | 7 | XMLR2D5G2N06 | 15 | XMLR040G2N06 | 17 |
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| XMPLP010BC77  | 3 | XMPLP040BC71V | 4 | XMPLP200PP73  | 7 | XMLR010G0T25 | 16 | XMLR040G2P06 | 17 |
| XMPLP010BC79  | 3 | XMPLP040BC77  | 4 | XMPLP250BC12  | 6 | XMLR010G0T26 | 16 | XMLR040G2P25 | 17 |
| XMPLP010BD11V | 3 | XMPLP040BC79  | 4 | XMPLP250BC22  | 6 | XMLR010G0T75 | 16 | XMLR100M0T25 | 17 |
| XMPLP010BD17  | 3 | XMPLP040BD11V | 4 | XMPLP250BC72  | 6 | XMLR010G0T76 | 16 | XMLR100M0T26 | 17 |
| XMPLP010BD19  | 3 | XMPLP040BD17  | 4 | XMPLP250BD12  | 6 | XMLR010G1N25 | 16 | XMLR100M0T75 | 17 |
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| XMPLP10KPD23  | 8 | XMPLP060BC11V | 5 | XMPLP300PP73  | 7 | XMLR010G2N05 | 16 | XMLR100M2N06 | 17 |
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| XMPLP10KPP13  | 8 | XMPLP060BC19  | 5 | XMPLP400BC22  | 6 | XMLR010G2N09 | 16 | XMLR100M2P06 | 17 |
| XMPLP10KPP23  | 8 | XMPLP060BC21V | 5 | XMPLP400BC72  | 6 | XMLR010G2N25 | 16 | XMLR160M0T25 | 17 |
| XMPLP10KPP73  | 8 | XMPLP060BC27  | 5 | XMPLP400BD12  | 6 | XMLR010G2N26 | 16 | XMLR160M0T75 | 17 |
| XMPLP016BC11V | 3 | XMPLP060BC29  | 5 | XMPLP400BD22  | 6 | XMLR010G2P05 | 16 | XMLR160M1N25 | 17 |
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| XMLR160M2N05 | 17 | XMLZL009      | 19 |
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| XMLR160M2P09 | 17 | XZCC12FCM40B  | 19 |
| XMLR250M0T25 | 18 | XZCC12FCM50B  | 19 |
| XMLR250M0T26 | 18 | XZCC12FDM40B  | 9  |
| XMLR250M0T75 | 18 | XZCC12FDM40B  | 11 |
| XMLR250M1N25 | 18 | XZCC12FDM40B  | 19 |
| XMLR250M1N26 | 18 | XZCC12FDM50B  | 19 |
| XMLR250M1N75 | 18 | XZCC12MCM40B  | 11 |
| XMLR250M1P25 | 18 | XZCC12MDM40B  | 11 |
| XMLR250M1P26 | 18 | XZCC43FCP40B  | 9  |
| XMLR250M1P75 | 18 | XZCP1141L2    | 9  |
| XMLR250M1P76 | 18 |               | 11 |
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|              |    |               | 19 |
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| XMLR250M2P25 | 18 | XZCP1241L2    | 9  |
| XMLR400M0T25 | 18 |               | 11 |
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|              |    |               | 19 |
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| XMLR400M1P75 | 18 | XZCPV1141L2   | 9  |
| XMLR400M2N05 | 18 | XZCPV1141L5   | 9  |
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| XMLR400M2P25 | 18 | XZCR1511040A1 | 11 |
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| XMLRM01G1N75 | 15 | XZCR1512064D2 | 19 |
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| XMLRM01G1P26 | 15 | <b>Z</b>      |    |
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| XMLRM01G2N25 | 15 | ZMLPA1P2SW    | 11 |
| XMLRM01G2N26 | 15 | ZMLPA2N0SH    | 11 |
| XMLRM01G2P05 | 15 | ZMLPA2P0SH    | 11 |
| XMLRM01G2P06 | 15 |               |    |
| XMLRM01G2P25 | 15 |               |    |
| XMLRM01G2P26 | 15 |               |    |



**Schneider Electric Industries SAS**

Head Office  
35, rue Joseph Monier  
F-92500 Rueil-Malmaison  
France

[www.tesensors.com](http://www.tesensors.com)

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