
Electronic sensors for pressure control OsiSense XM

Catalogue



Simply easy!™

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Electronic pressure sensors

OsiSense XM

Applications	Type of installation	Control circuits
	Type of sensor and features	
		Devices without display Pressure transmitters Analogue output, 4...20 mA or 0...10 V



Sizes	0...25 bar (0...362 psi) 0...300 psi (0...20.7 bar)
Fluids or products controlled	Air, fresh water (0...+80°C)
Fluid connection	G 1/4 A DIN 3852-E male (2) 1/4"-18 NPT male (2)
Rated supply voltage	12/24 V $\overline{\text{---}}$ (4...20 mA), 24 V $\overline{\text{---}}$ (0...10 V)
Voltage limits	8...33 V $\overline{\text{---}}$ (4...20 mA), 16.2...33 V $\overline{\text{---}}$ (0...10 V)
Current consumption	< 20 mA (4...20 mA), < 6 mA (0...10 V)
Electrical connection	M12, EN 175301-803-A (ex-DIN 43650A) or Packard Metri-Pack 150 connector (1)
Type of output	Analogue, 4...20 mA or 0...10 V
Materials in contact with fluid	Ceramic Al ₂ O ₃ , stainless steel type AISI 303, nitrile (NBR)
Output response time	< 2 ms
Precision including linearity, hysteresis, repeat accuracy	± 1% of the measuring range
Service life	> 10 million operating cycles
Dimensions Width x height x depth of case (mm)	Ø 36 x 67.5
Conforming to standards	CE, ROHS, EN/IEC 61326-2-3
Product certifications	UL, CSA conforming to UL 508 and CSA-22.2 no. 14
Ambient air temperature for operation	0...+80°C
Degree of protection	IP 65 conforming to EN/IEC 60529, NEMA Type 4 conforming to UL/CSA
Vibration resistance	20 gn (9...2000 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27
Type reference	XMLK●●●B2C●●, XMLK●●●B2C●●TQ (3) XMLK●●●B2D●●, XMLK●●●B2D●●TQ (3) XMLK●●●P2C●●, XMLK●●●P2C●●TQ (3) XMLK●●●P2D●●, XMLK●●●P2D●●TQ (3) XMLK●●●P2P●●, XMLK●●●P2P●●TQ (3)
Pages	11 and 12

Other versions
 (1) For other electrical connections, please consult our Customer Care Centre.
 (2) For other fluid connections, please consult our Customer Care Centre.
 (3) Sold in lots of 25, minimum order quantity 50.

Control circuits		
Devices without display		
Pressure transmitters Analogue output, 4...20 mA or 0...10 V.	Pressure and vacuum switches Factory set switching thresholds Solid-state NPN or PNP output	Pressure transmitters Analogue output, 4...20 mA, 0...10 V or ratiometric output, 0.5...4.5 V.



- 1...400 bar (- 14.5 psi...5800 psi)	- 1...9 bar (- 14.5...130 psi), 0...600 bar (0...8700 psi), 0...10,000 psi (0 bar...690 bar)
Fresh water (0...+125°C) Air, hydraulic oils, corrosive fluids (- 15...+125°C)	Fresh water (0...+120°C) Air, hydraulic oils, refrigeration fluids (- 20...+120°C)
G 1/4 A DIN 3852-E male or 1/4"-18 NPT male (2)	G 1/4 A DIN 3852 E male (≤ 40 bar), G 1/4 A DIN 3852 A male (≥ 100 bar) SAE 7/16-20 UNF-2A male, SAE 7/16-20 UNF-2B female or 1/4"-18 NPT male
12/24 V $\overline{\text{---}}$ (4...20 mA), 24 V $\overline{\text{---}}$ (0...10 V)	12/24 V $\overline{\text{---}}$
8...33 V $\overline{\text{---}}$ (4...20 mA), 11.4...33 V $\overline{\text{---}}$ (0...10 V)	8...33 V $\overline{\text{---}}$
< 20 mA	< 4 mA
M12 connector (1) or integrated quick connection (4)	M12, EN 175301-803-A (ex-DIN 43650A) or Packard Metri-Pack 150 connector
Analogue, 4...20 mA or 0...10 V	Solid-state, NPN or PNP, NC 150 mA, 12/24 V $\overline{\text{---}}$
Ceramic Al ₂ O ₃ , stainless steel type AISI 303, FPM (Viton) PPS (Leakage protection for P > 40 bar)	17-4PH stainless steel, stainless steel type AISI 304, FKM fluorocarbon (Viton)
< 2 ms	< 5 ms at 90% of maximum deviation
± 0.3% of the measuring range	± 0.5% of the measuring range
> 10 million operating cycles	> 10 million operating cycles
Ø 22.8 x 58.1 (with M12 connector) Ø 22.8 x 66.1 (with quick connection)	Ø 30 x 26 (with M12 connector) Ø 30 x 25 (with EN 175301-803-A connector) Ø 30 x 37 (with Packard Metri-Pack 150 connector)
CE, ROHS, EN/IEC 61326-2-3	CE, ROHS, EN/IEC 61326-1
UL, CSA conforming to UL 508 and CSA-22.2 no. 14	cULus conforming to UL 61010-1 and CSA-C22.2 no. 61010-1
- 15...+85°C	- 30...+120°C
IP 66, IP 67 conforming to EN/IEC 60529, NEMA Type 4 conforming to UL/CSA	IP 65 or IP 67 conforming to EN/IEC 60529 IP 69K conforming to DIN 40050 (versions with M12 connector)
20 gn (9...2000 Hz) conforming to EN/IEC 60068-2-6	20 gn (10...2000 Hz) conforming to EN/IEC 60068-2-64
25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27	25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27
XMLG●●●D21, XMLG●●●D71 XMLG●●●D21TQ (3) XMLG●●●D71TQ (3) XMLG●●●Q21TQ (3) XMLG●●●Q71TQ (3)	XMLG●●●D31TQ (3) XMLG●●●D41TQ (3) XMLG●●●Q31TQ (3) XMLG●●●Q41TQ (3)
15 to 18	XMLP●●●B●1V XMLP●●●B●● XMLP●●●P●●3
	XMLP●●●B●1VQ (5) XMLP●●●B●●Q (5) XMLP●●●P●●3Q (5)
	21 to 26

(4) Phoenix Contact "Quickon" integrated connection.
 (5) Sold in lots of 40.

Applications	Type of installation	Control circuits
	Type reference and features	Switches with 4-digit display
		- With an analogue output, 4...20 mA and a switching output, PNP or NPN type - With two PNP or NPN switching outputs



Sizes	-	
Fluids or products controlled	-	
Fluid connection	-	
Display	7 segment/4-digit display. Pressure units in bar, psi or pascal. 27 display ranges can be selected, from -14.5 to 6000	
Rated supply voltage	24 V ---	
Voltage limits	17...33 V ---	
Current consumption	≤ 50 mA	
Electrical connection	M12, 4-pin connector	
Type of output	■ Analogue, 4...20 mA + one switching output, PNP or NPN, 200 mA	■ 2 switching outputs, PNP or NPN, 200 mA
Materials in contact with fluid	-	
Output response time	≤ 3 ms	
Precision including linearity, hysteresis, repeat accuracy	± 1% of the measuring range	
Service life	> 10 million operating cycles	
Dimensions Width x height x depth of case (mm)	41 x 77 x 42	
Conforming to standards	CE, ROHS, EN/IEC 61000-6-2, EN/IEC 61000-6-4	
Product certifications	cULus conforming to UL 508 and CSA-C22.2 no. 14	
Ambient air temperature for operation	-25...+70°C	
Degree of protection	IP 65 or IP 67 conforming to EN/IEC 60529, IP 69K conforming to DIN 40050	
Vibration resistance	5 gn (10...2000 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	25 gn conforming to EN/IEC 60068-2-27	
Type reference	ZMLPA1●2S●	ZMLPA2●0SH
Pages	10 to 12	

Other versions (1) For other fluid connections, please consult our Customer Care Centre.

Control circuits	Pressure transmitters with 4-digit display	Pressure and vacuum switches with 4-digit display
	- With one analogue output, 4...20 mA or 0...10 V and one input for diagnosis	- With one analogue output, 4...20 mA or 0...10 V and one switching output, PNP or NPN type - With two switching outputs, PNP or NPN type - With one analogue output, 4...20 mA, and two switching outputs, PNP or NPN type



Sizes	- 1...600 bar (- 14.5 psi...8700 psi)	
Fluids or products controlled	Fresh water (0...+80°C). Air, hydraulic oils, refrigeration fluids (-20...+80°C)	
Fluid connection	G 1/4 A DIN3852-Y female, 1/4"-18 NPT female or SAE 7/16-20 UNF female (1)	
Display	7-segment/4-digit display. Pressure units in bar, psi or pascal. Signalling LED for the pressure unit and output state.	
Rated supply voltage	24 V ---	
Voltage limits	17...33 V ---	
Current consumption	≤ 50 mA	
Electrical connection	M12, 4-pin connector	M12, 4 or 5-pin connector
Type of output	■ Analogue, 4...20 mA or 0...10 V	■ Analogue, 4...20 mA or 0...10 V + one switching output, PNP or NPN, 250 mA ■ Two switching outputs, PNP or NPN, 250 mA ■ Analogue, 4...20 mA + two switching outputs, PNP or NPN, 250 mA
Materials in contact with fluid	≤ 40 bar: Ceramic, stainless steel 316L, FKM fluorocarbon (Viton) ≥ 100 bar: Stainless steel 316L, FKM fluorocarbon (Viton)	
Output response time	≤ 10 ms	≤ 10 ms (analogue output) ≤ 5 ms (switching output)
Precision including linearity, hysteresis, repeat accuracy	± 1% of the measuring range	
Service life	> 10 million operating cycles	
Dimensions Width x height x depth of case (mm)	41 x 93 x 42	
Conforming to standards	CE, ROHS, EN/IEC 61326-2-3	
Product certifications	cULus conforming to UL 61010-1 and CSA-C22.2 no. 61010-1	
Ambient air temperature for operation	-20...+80°C	
Degree of protection	IP 66, IP 67 conforming to EN/IEC 60529	
Vibration resistance	20 gn (10...2000 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	50 gn conforming to EN/IEC 60068-2-27	
Type reference	XMLR●●●G0●●●, XMLR●●●M0●●●	XMLR●●●G1●●●, XMLR●●●G2●●●, XMLR●●●M1●●●, XMLR●●●M2●●●
Pages	20 to 26	

Other versions (1) For other fluid connections, please consult our Customer Care Centre.

Electronic pressure sensors

OsiSense XM

For control circuits

Functions

Electronic pressure sensors

The function of electronic pressure sensors is the control and measurement of pressure or vacuum levels in hydraulic or pneumatic systems. Being electronic, the sensors have no mechanical moving parts.

Pressure transmitters

Pressure transmitters convert the pressure into an electrical signal which is proportional to the applied pressure. Their high precision makes them suitable for all industrial applications requiring pressure/vacuum display, control or regulation.

Being very robust, they are equally suitable for applications involving high operating rates.

Pressure and vacuum switches

Electronic pressure switches and vacuum switches convert a change in pressure into a digital electrical signal when the switching points which have been set are reached.

They are distinguished from electromechanical pressure switches and vacuum switches by their very wide switching adjustment ranges.

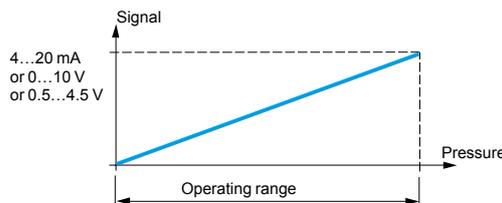
Their robustness, together with their excellent adherence to the set values over a period of time, make them ideal for applications involving high operating rates. In addition, the high repeat accuracy and fast response time of these sensors make them equally suitable for applications requiring accurate pressure regulation and monitoring.

Note: Some sensors in the OsiSense XM ranges have both one analogue output and one or two digital outputs.

Operating principle

Pressure transmitters

These devices provide an analogue output which has a signal proportional to the pressure applied to the sensor. Depending on the model, this signal can be 4...20 mA, 0...10 V or 0.5...4.5 V.



Pressure and vacuum switches

These devices have one or two digital outputs depending on the model. The status of these outputs is defined by high (SP) and low (rP) switching points which can usually be independently adjusted.

Pressure switches and vacuum switches can have 2 different switching modes:

- Hysteresis mode, particularly suited to pumping applications (filling/emptying).
- Window mode, more suitable for applications where the pressure is regulated.

The switching outputs can usually be configured as normally open (NO) or normally closed (NC).

In addition, for the OsiSense XMLR range (1), output switching can be delayed for between 1 and 50 seconds, both on the pressure rising edge and falling edge.

(1) See pages 30 to 37.

Electronic pressure sensors

OsiSense XM

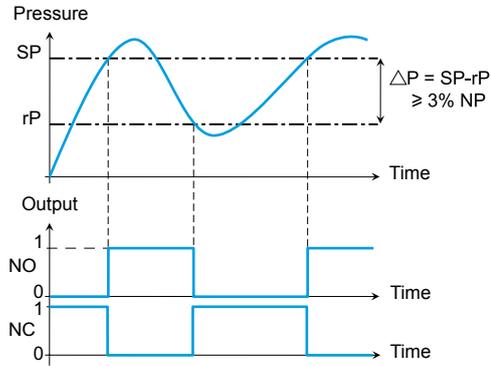
For control circuits

Operating principle (continued)

Pressure and vacuum switches (continued)

Switching output: hysteresis mode

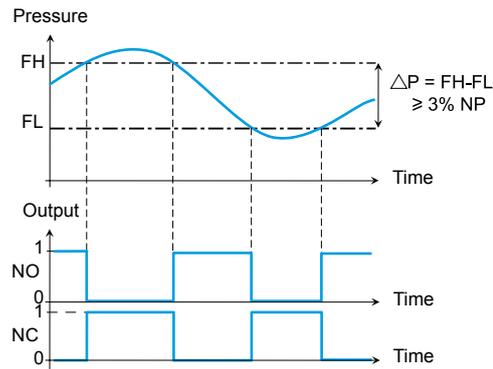
Hysteresis mode is generally used for pumping and/or emptying applications.



SP: High switching point
 rP: Low switching point
 NP: Nominal pressure

Switching output: Window mode

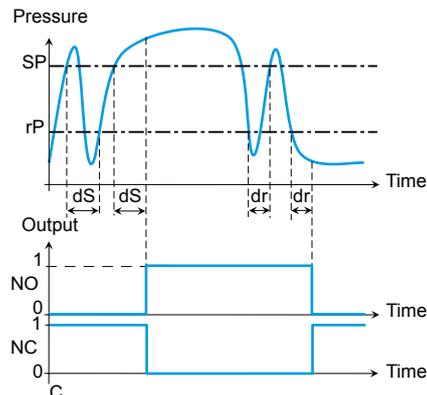
Window mode is generally used for pressure regulation applications.



FH: High switching point
 FL: Low switching point
 NP: Nominal pressure

Switching output: time delay mode

Time delay mode is generally used to filter fast transient pressures. The output only switches after a "dS" and "dr" time period which can be set between 0 and 50 seconds.



FH: High switching point
 FL: Low switching point
 NP: Nominal pressure

Electronic pressure sensors

OsiSense XM

For control circuits

Terminology

Nominal pressure NP or size

The nominal pressure is the maximum pressure or vacuum which can be measured by the sensor.

Maximum permissible accidental pressure

This is the maximum pressure, excluding pressure surges, to which the pressure sensor can occasionally be subjected without being damaged.

Destruction pressure

The pressure value which if exceeded is likely to cause serious damage to the sensor i.e. leaking, bursting, component failure, etc.

High switching point (SP)

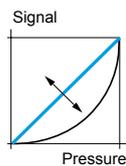
This is the upper pressure setting selected on the pressure or vacuum switch at which the electrical output changes state when this pressure value is reached.

Low switching point (rP)

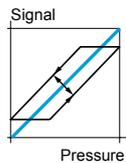
This is the lower pressure setting selected on the pressure or vacuum switch at which the electrical output changes state when this pressure value is reached.

Precision

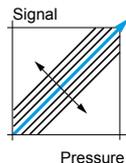
The sensor's overall precision is the result of several error sources linked to linearity, hysteresis, repeat accuracy and setting tolerances. It is expressed as a % of the nominal pressure.



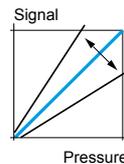
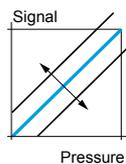
The linearity is the maximum deviation between the actual transmitter curve and the nominal curve.



The hysteresis is the maximum deviation between the rising pressure curve and the falling pressure curve.



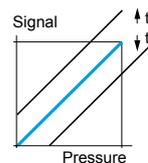
The repeat accuracy is the maximum drift encountered after several successive pressure variation cycles.



The setting tolerances are the calibration tolerances regarding the zero point and sensitivity set during sensor manufacture (gradient of output signal curve from the pressure transmitter).

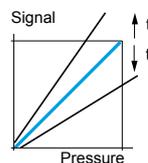
Temperature drift

Although the pressure sensor is compensated electronically, its accuracy is still slightly influenced by the temperature to which it is subjected.



Zero point drift

This is proportional to the temperature and is expressed as % NP/°C.



Sensitivity drift

This is proportional to the temperature and is expressed as % NP/°C.

(NP: Nominal pressure)

Main criteria for selecting an electronic pressure sensor

The fluid or gas to be controlled

Our products, including the materials used, are compatible with the majority of fluids or gases encountered in industrial applications.

However some particularly corrosive fluids (sea water, for example) can affect product operation sooner or later.

The fluid temperature can also be an aggravating factor.

The materials in contact with the fluid are described in the technical data sheets which can be found on our website, www.tesensors.com.

If in doubt about compatibility, contact our Customer Care Centre.

The maximum pressure of the fluid to be controlled

The maximum pressure of the fluid to be controlled will determine the nominal pressure (or size) of the product to be used.

Our product ranges include a number of sizes which cover a pressure range from -1 to 600 bar.

It is advisable to choose a size just above the maximum pressure to be controlled, in order to have the best possible accuracy.

However, sometimes it is necessary to take account of transient pressure surges caused by the system operation (for example: the phenomenon of water hammer) and choose a size well above the maximum pressure to be controlled.

The fluid entry

There are a number of formats for the fluid and pneumatic connections.

Our ranges have the 3 most common types of fluid entry:

- G 1/4
- 1/4" - 18 NPT
- SAE 7/16-20UNF

The type and configuration of the electrical output(s)

Depending on the product range, each sensor reference has one, two or three outputs which may be analogue or digital.

It is important to clearly identify the function(s) the pressure sensor has to fulfil in the control system, in order to select the correct product.

The electrical connection

All products in the OsiSense XM ranges offer connection via an M12 x 1, 4 or 5-pin male cylindrical connector.

Some pressure transmitters also have an EN 175301-803-A or Packard Metri-Pack 150 connector.

We recommend connecting our pressure sensors by means of our OsiSense XZ cabling accessories.

Electronic pressure sensors

OsiSense XM

XMLK pressure transmitters

Plastic body, stainless steel 303 fluid entry.

With analogue output

Presentation

XMLK pressure transmitters are characterised by their ceramic pressure measuring cell.

The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge screen-printed on the ceramic.

The change in resistance is then processed by the integrated electronics, giving an analogue output signal.

The stainless steel AISI 303 fluid entry and the ceramic cell combined with a nitrile gasket make these transmitters particularly suitable for fluids such as air and fresh water, for temperatures between 0 and + 80°C.

Depending on the model, these devices are supplied:

- With 12 or 24 V $\overline{\text{---}}$ nominal and operate from 8 to 33 V $\overline{\text{---}}$ for transmitters with 4...20 mA output
- With 24 V $\overline{\text{---}}$ nominal and operate from 11.4 to 33 V $\overline{\text{---}}$ for transmitters with a 0...10 V output

These products have IP 67 and Nema type 4 degree of protection.

In addition to their plastic case and the pressure ratings available, they constitute the optimised solution for water pumping applications.

Description

- 1 Electrical connection: M12 male, EN 175301-803-A or Packard Metri-Pack 150.
- 2 Plastic case.
- 3 Electronics: 4...20 mA or 0...10 V analogue output.
- 4 Ceramic pressure measuring cell.
- 5 Nitrile gasket.
- 6 Fluid entry: G 1/4 male or 1/4" - 18 NPT male.

Functions

Versions with an M12 electrical connector and 4...20 mA analogue output (XMLK●●●●2D2●) can be used with switches with ZMLP 4-digit display (1).

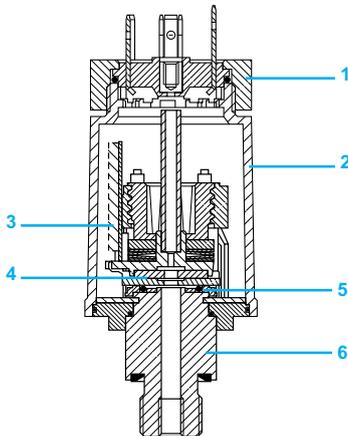
The pressure ranges available are:

- 0...6 bar to 0...25 bar
- 0...100 psi to 0...300 psi

The selling in lots option offers an excellent price/performance ratio (sold individually or in lots of 25).

XMLK electronic pressure sensors are, therefore, mainly intended for machine manufacturers.

(1) See pages 28 and 29.



Electronic pressure sensors

OsiSense XM

XMLK pressure transmitters

Plastic body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLK●●●B2D●1



XMLK●●●B2C●1

0 to 6 bar (0 to 87 psi)

Maximum permissible accidental pressure: 12 bar, destruction pressure: 18 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK006B2D21 (2)	0.110
	EN 175301-803-A	XMLK006B2C21 (2)	0.110
0...10 V	M12	XMLK006B2D71	0.110
	EN 175301-803-A	XMLK006B2C71	0.110

0 to 10 bar (0 to 145 psi)

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

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK010B2D21 (2)	0.110
	EN 175301-803-A	XMLK010B2C21 (2)	0.110
0...10 V	M12	XMLK010B2D71	0.110
	EN 175301-803-A	XMLK010B2C71	0.110

0 to 16 bar (0 to 232 psi)

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

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK016B2D21 (2)	0.110
	EN 175301-803-A	XMLK016B2C21 (2)	0.110
0...10 V	M12	XMLK016B2D71	0.110
	EN 175301-803-A	XMLK016B2C71	0.110

0 to 25 bar (0 to 362.5 psi)

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

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK025B2D21 (2)	0.110
	EN 175301-803-A	XMLK025B2C21 (2)	0.110
0...10 V	M12	XMLK025B2D71	0.110

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Add TQ to the end of the reference selected.

Example: XMLK006B2C21 becomes XMLK006B2C21TQ. Minimum quantity 50.

Electronic pressure sensors

OsiSense XM

XMLK pressure transmitters

Plastic body, stainless steel 303 fluid entry.

With analogue output. Sizes in psi



XMLK●●0P2D●3



XMLK●●0P2C●3



XMLK●●0P2P●3

0 to 100 psi (0 to 6.9 bar)			
Maximum permissible accidental pressure: 200 psi, destruction pressure: 300 psi			
Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK100P2D23 (2)	0.110
	EN 175301-803-A	XMLK100P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK100P2P23 (2)	0.110
0...10 V	M12	XMLK100P2D73	0.110
	EN 175301-803-A	XMLK100P2C73	0.110

0 to 150 psi (0 to 10.3 bar)			
Maximum permissible accidental pressure: 300 psi, destruction pressure: 450 psi			
Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK150P2D23 (2)	0.110
	EN 175301-803-A	XMLK150P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK150P2P23 (2)	0.110
0...10 V	M12	XMLK150P2D73	0.110
	EN 175301-803-A	XMLK150P2C73	0.110

0 to 200 psi (0 to 13.8 bar)			
Maximum permissible accidental pressure: 400 psi, destruction pressure: 600 psi			
Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK200P2D23 (2)	0.110
	EN 175301-803-A	XMLK200P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK200P2P23 (2)	0.110
0...10 V	M12	XMLK200P2D73	0.110
	EN 175301-803-A	XMLK200P2C73	0.110

0 to 300 psi (0 to 20.7 bar)			
Maximum permissible accidental pressure: 600 psi, destruction pressure: 900 psi			
Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK300P2D23 (2)	0.110
	EN 175301-803-A	XMLK300P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK300P2P23 (2)	0.110
0...10 V	M12	XMLK300P2D73	0.110
	EN 175301-803-A	XMLK300P2C73	0.110

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Add TQ to the end of the reference selected.

Example: XMLK200P2D23 becomes XMLK200P2D23TQ. Minimum quantity 50.

OsiSense XM
XMLK pressure transmitters
Accessories



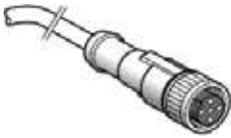
XZCC12FDM40B



XZCC12FCM40B



XZCC43FCP40B



XZCP1141L10



XZCP1241L5

Connection accessories

Description	Type	Reference	Weight kg
M12 female connector metal clamping ring (1)	Straight	XZCC12FDM40B	0.020
	Elbowed	XZCC12FCM40B	0.020

Female connector EN 175301-803-A (1)	–	XZCC43FCP40B	0.035
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Description	Length of cable	Reference	Weight kg
Pre-wired M12, straight, female connectors	2 m	XZCP1141L2	0.090
	5 m	XZCP1141L5	0.190
	10 m	XZCP1141L10	0.370
Pre-wired M12, elbowed, female connectors	2 m	XZCP1241L2	0.090
	5 m	XZCP1241L5	0.190
	10 m	XZCP1241L10	0.370

(1) Connector with screw terminal connections.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters, pressure and vacuum switches. Metal body, stainless steel 303 fluid entry. With analogue or solid-state output.

Presentation

XMLG pressure transmitters and pressure switches are characterised by their ceramic pressure measuring cell.

The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge screen-printed on the ceramic.

The change in resistance is then processed by the integrated electronics, giving either a digital or analogue output signal.

The stainless steel AISI 303 body and the ceramic cell combined with a viton gasket make these products compatible with industrial fluids such as:

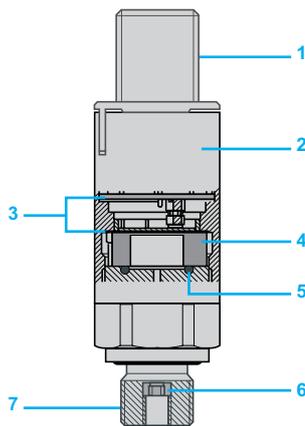
- Air
- Fresh water
- Hydraulic oils

XMLG pressure sensors can control fluids from -15 to + 125°C.

Depending on the model, these sensors are supplied:

- With 12 or 24 V $\overline{\text{---}}$ nominal and operate from 8 to 33 V $\overline{\text{---}}$ for transmitters with 4...20 mA output, pressure and vacuum switches;
- With 24 V $\overline{\text{---}}$ nominal and operate from 11.4 to 33 V $\overline{\text{---}}$ for transmitters with a 0...10 V output.

Offered with IP 67 and Nema type 4 degree of protection, these compact products, which offer excellent EMC characteristics and typical precision better than 0,3 %, are particularly suitable for the most demanding industrial applications.



Description

- 1 Electrical connection: M12 male or quick connection for cable.
- 2 Metal case made of stainless steel 303.
- 3 Electronics with EMC protection.
- 4 Ceramic pressure measuring cell.
- 5 FPM (Viton) gasket.
- 6 Leakage protection (on sizes \geq 40 bar).
- 7 Fluid entry: G 1/4 male or 1/4" - 18 NPT male.

Functions

Pressure transmitters have an 4...20 mA or 0...10 V analogue output, which is proportional to the measuring range.

Versions with an M12 electrical connector and 4...20 mA analogue output (XMLG●●●D2●) can be used with switches with a 4-digit ZMLP display (1).

Pressure and vacuum switches have a solid-state NPN or PNP normally closed (NC) output. The upper and lower switching points can only be adjusted during manufacture. Neither the customer nor the end user can adjust them.

This makes the product extremely reliable during operation and avoids the product losing its settings throughout its operating life.

The pressure ranges offered are:

- - 1...0 bar
- 0...400 bar

An anti-leakage system integrated in products for pressures \geq 40 bar, prevents fluid leakage in the event of the measuring cell destruction pressure being exceeded.

Important ordering requirement

XMLG pressure transmitters are sold individually or in lots of 50. Pressure switches and vacuum switches are only sold in lots of 50.

Since the product is factory-set, please consult our Customer Care Centre before ordering, to specify the desired switching points.

(1) See pages 28 and 29.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters

Metal body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLG●●●D●●●

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

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLGM01D21 (2)	0.095
0...10 V	M12	XMLGM01D71	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLGM01D23 (2)	0.095
0...10 V	M12	XMLGM01D73TQ (3)	0.095

0 to 1 bar (0 to 14.5 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG001D21 (2)	0.095
0...10 V	M12	XMLG001D71 (2)	0.095

Fluid connection 1/4"- 18 NPT (male)

4...20 mA	M12	XMLG001D23 (2)	0.095
0...10 V	M12	XMLG001D73TQ (3)	0.095

0 to 6 bar (0 to 87 psi)

Maximum permissible accidental pressure: 17.6 bar, destruction pressure: 20 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG006D21	0.095
0...10 V	M12	XMLG006D71	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLG006D23	0.095
0...10 V	M12	XMLG006D73TQ (3)	0.095

(1) For other electrical or fluid connections, or types of output, please contact our Customer Care Centre.

(2) Sold in lots of 25. Minimum quantity 50. Add TQ to the end of the reference selected.

Example: XMLG001D21 becomes XMLG001D21TQ.

(3) Sold only in lots of 25. Minimum quantity 50.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters

Metal body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLG●●●D●●●



XMLG●●●Q●●●

0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 22 bar, destruction pressure: 25 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG010D21 (2)	0.095
	Integrated connection (4)	XMLG010Q21TQ (3)	0.095
0...10 V	M12	XMLG010D71 (2)	0.095
	Integrated connection (4)	XMLG010Q71TQ (3)	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLG010D23 (2)	0.095
0...10 V	M12	XMLG010D73	0.095

0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 35.2 bar, destruction pressure: 40 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG016D21 (2)	0.095
	M12	XMLG016D71	0.095
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLG016D23	0.095
	M12	XMLG010D73TQ (3)	0.095

0 to 25 bar (0 to 362.5 psi)

Maximum permissible accidental pressure: 56 bar, destruction pressure: 62.5 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG025D21 (2)	0.095
	Integrated connection (4)	XMLG025Q21TQ (3)	0.095
0...10 V	M12	XMLG025D71 (2)	0.095
	1/4"- 18 NPT (male) fluid connection		
4...20 mA	M12	XMLG025D23 (2)	0.095
	M12	XMLG025D73TQ (3)	0.095

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Minimum quantity 50. Add TQ to the end of the reference selected.

Example: XMLG001D21 becomes XMLG001D21TQ.

(3) Sold only in lots of 25. Minimum quantity 50.

(4) Phoenix Contact "Quickon" type integrated quick connection.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters

Metal body, stainless steel 303 fluid entry.

With solid-state output. Sizes in bar



XMLG●●●D●●●



XMLG●●●Q●●●

0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 225 bar, destruction pressure: 250 bar

Analogue output type (1)	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG100D21	0.095
	Integrated connection (4)	XMLG100Q21TQ (3)	0.095
0...10 V	M12	XMLG100D71 (2)	0.095

1/4" - 18 NPT (male) fluid connection

4...20 mA	M12	XMLG100D23 (2)	0.095
0...10 V	M12	XMLG100D73TQ (3)	0.095

0 to 250 bar (0 to 3625 psi)

Maximum permissible accidental pressure: 560 bar, destruction pressure: 625 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG250D21 (2)	0.095
0...10 V	M12	XMLG250D71 (2)	0.095

1/4" - 18 NPT (male) fluid connection

4...20 mA	M12	XMLG250D23	0.095
0...10 V	M12	XMLG250D73TQ (3)	0.095

0 to 400 bar (0 to 5800 psi)

Maximum permissible accidental pressure: 800 bar, destruction pressure: 900 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG400D21 (2)	0.095
0...10 V	M12	XMLG400D71 (2)	0.095
1/4" - 18 NPT (male) fluid connection			
4...20 mA	M12	XMLG400D23	0.095
0...10 V	M12	XMLG400D73TQ (3)	0.095

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Minimum quantity 50. Add TQ to the end of the reference selected. Example: XMLG001D21 becomes XMLG001D21TQ.

(3) Sold only in lots of 25. Minimum quantity 50.

(4) Phoenix Contact "Quickon" type integrated quick connection.

Electronic pressure sensors

OsiSense XM

XMLG pressure and vacuum switches

Metal body, stainless steel 303 fluid entry.

With solid-state output. Sizes in bar



XMLG●●●D●1TQ

-1 to -0.08 bar (-14.5 to -1.16 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLGM01D31TQ (1)	0.095
PNP	M12	XMLGM01D41TQ (1)	0.095

0.08 to 1 bar (1.16 to 14.5 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG001D31TQ (1)	0.095
PNP	M12	XMLG001D41TQ (1)	0.095

0.8 to 10 bar (11.6 to 145 psi)

Maximum permissible accidental pressure: 22 bar, destruction pressure: 25 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG010D31TQ (1)	0.095
PNP	M12	XMLG010D41TQ (1)	0.095

2 to 25 bar (29 to 362.5 psi)

Maximum permissible accidental pressure: 56 bar, destruction pressure: 62.5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG025D31TQ (1)	0.095
PNP	M12	XMLG025D41TQ (1)	0.095

8 to 100 bar (116 to 1450 psi)

Maximum permissible accidental pressure: 225 bar, destruction pressure: 250 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG100D31TQ (1)	0.095
PNP	M12	XMLG100D41TQ (1)	0.095

20 to 250 bar (290 to 3625 psi)

Maximum permissible accidental pressure: 560 bar, destruction pressure: 625 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG250D31TQ (1)	0.095
PNP	M12	XMLG250D41TQ (1)	0.095

32 to 400 bar (464 to 5800 psi)

Maximum permissible accidental pressure: 800 bar, destruction pressure: 900 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG400D31TQ (1)	0.095
PNP	M12	XMLG400D41TQ (1)	0.095

(1) Sold only in lots of 25. Minimum quantity 50.

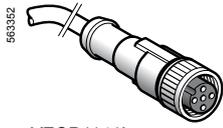
Note: Since the product is factory-set, please consult our Customer Care Centre before ordering, to specify the desired switching points.

Electronic pressure sensors

OsiSense XM

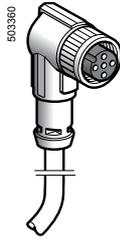
XMLG pressure transmitters, pressure and vacuum switches.

Accessories and replacement parts



563352

XZCP1141L●



503360

XZCP1241L●



532711

XZCC12FCM40B



532715

XMLGZ001

Connection accessories

Description		Length of cable m	Reference	Weight kg
M12 female connector, metal clamping ring (1)	Straight	–	XZCC12FDM40B	0.020
	Elbowed	–	XZCC12FCM40B	0.020
Pre-wired M12 female connectors	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

Replacement part

Description	Sold in lots of	Unit reference	Weight kg
Quick connection (2)	10	XMLGZ001	0.025

(1) Connector with screw terminal connections.

(2) Phoenix Contact "Quickon" type connection.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue output

Presentation

XMLP pressure transmitters are characterised 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 stainless steel AISI 304

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

Their power supply depends on the type of analogue output:

- 5 V +/- 5% 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 degree of protection varies according to the type of connector:

- IP 65 for versions with connector EN 175301-803-A
- 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 analogue output which delivers a signal 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 7/16-20UNF-2A male
- SAE 7/16-20UNF-2B female (with Schrader pin)
- 1/4"-18 NPT male

XMLP transmitters are sold individually or in lots of 40.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue output. Sizes in bar



XMLP●●●BD●1V



XMLP●●●BC●1V



XMLP●●●BD●7



XMLP●●●BC●7



XMLP●●●BD●9



XMLP●●●BC●9

-1 to 9 bar (-14.5 to 130 psi)

Maximum permissible accidental pressure: 20 bar, destruction pressure: 100 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLPM09BD21V (1)	0.050
	EN 175301-803-A	XMLPM09BC21V (1)	0.050
0...10 V	M12	XMLPM09BD71V (1)	0.050
	EN 175301-803-A	XMLPM09BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLPM09BD11V (1)	0.050
	EN 175301-803-A	XMLPM09BC11V (1)	0.050

0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 20 bar, destruction pressure: 100 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP010BD21V (1)	0.050
	EN 175301-803-A	XMLP010BC21V (1)	0.050
0...10 V	M12	XMLP010BD71V (1)	0.050
	EN 175301-803-A	XMLP010BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP010BD11V (1)	0.050
	EN 175301-803-A	XMLP010BC11V (1)	0.050

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

4...20 mA	M12	XMLP010BD27 (1)	0.050
	EN 175301-803-A	XMLP010BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP010BD29 (1)	0.050
	EN 175301-803-A	XMLP010BC29 (1)	0.050
0...10 V	M12	XMLP010BD79 (1)	0.050
	EN 175301-803-A	XMLP010BC79 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP010BD19 (1)	0.050

0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 32 bar, destruction pressure: 160 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP016BD21V (1)	0.050
	EN 175301-803-A	XMLP016BC21V (1)	0.050
0...10 V	M12	XMLP016BD71V (1)	0.050
	EN 175301-803-A	XMLP016BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP016BD11V (1)	0.050
	EN 175301-803-A	XMLP016BC11V (1)	0.050

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

4...20 mA	M12	XMLP016BD27 (1)	0.050
	EN 175301-803-A	XMLP016BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP016BD29 (1)	0.050
	EN 175301-803-A	XMLP016BC29 (1)	0.050
0...10 V	M12	XMLP016BD79 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP016BD19 (1)	0.050

(1) Sold in lots of 40: Add the letter Q to the end of the reference selected.
Example: XMLP016BD21V becomes XMLP016BD21VQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue output. Sizes in bar



XMLP●●●BD●1V



XMLP●●●BC●1V



XMLP●●●BD●7



XMLP●●●BC●7



XMLP●●●BD●9



XMLP●●●BC●9

0 to 25 bar (0 to 362.5 psi)

Maximum permissible accidental pressure: 50 bar, destruction pressure: 200 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP025BD21V (1)	0.050
	EN 175301-803-A	XMLP025BC21V (1)	0.050
0...10 V	M12	XMLP025BD71V (1)	0.050
	EN 175301-803-A	XMLP025BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP025BD11V (1)	0.050
	EN 175301-803-A	XMLP025BC11V (1)	0.050

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

4...20 mA	M12	XMLP025BD27 (1)	0.050
	EN 175301-803-A	XMLP025BC27 (1)	0.050
0...10 V	M12	XMLP025BD77	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP025BD29 (1)	0.050
	EN 175301-803-A	XMLP025BC29 (1)	0.050
0...10 V	M12	XMLP025BD79 (1)	0.050

0 to 40 bar (0 to 580 psi)

Maximum permissible accidental pressure: 80 bar, destruction pressure: 320 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP040BD21V (1)	0.050
	EN 175301-803-A	XMLP040BC21V (1)	0.050
0...10 V	M12	XMLP040BD71V (1)	0.050
	EN 175301-803-A	XMLP040BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP040BD11V (1)	0.050
	EN 175301-803-A	XMLP040BC11V (1)	0.050

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

4...20 mA	M12	XMLP040BD27 (1)	0.050
	EN 175301-803-A	XMLP040BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP040BD29 (1)	0.050
	EN 175301-803-A	XMLP040BC29 (1)	0.050
0...10 V	M12	XMLP040BD79 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP040BD19	0.050

(1) Sold in lots of 40: Add the letter Q to the end of the reference selected.
Example: XMLP040BD21V becomes XMLP040BD21VQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue output. Sizes in bar

XMLP060BD●1V
XMLP100BD●2XMLP060BC●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: 480 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP060BD21V (1)	0.050
	EN 175301-803-A	XMLP060BC21V (1)	0.050
0...10 V	M12	XMLP060BD71V (1)	0.050
	EN 175301-803-A	XMLP060BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP060BD11V (1)	0.050
	EN 175301-803-A	XMLP060BC11V (1)	0.050

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

4...20 mA	M12	XMLP060BD27 (1)	0.050
	EN 175301-803-A	XMLP060BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP060BD29 (1)	0.050
	EN 175301-803-A	XMLP060BC29 (1)	0.050
0...10 V	M12	XMLP060BD79 (1)	0.050

0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 200 bar, destruction pressure: 600 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP100BD22 (1)	0.050
	EN 175301-803-A	XMLP100BC22 (1)	0.050
0...10 V	M12	XMLP100BD72 (1)	0.050
	EN 175301-803-A	XMLP100BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP100BD12 (1)	0.050
	EN 175301-803-A	XMLP100BC12 (1)	0.050

(1) Sold in lots of 40: Add the letter Q to the end of the reference selected.
Example: XMLP060BD21V becomes XMLP060BD21VQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue 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: 960 bar			
Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP160BD22 (1)	0.050
	EN 175301-803-A	XMLP160BC22 (1)	0.050
0...10 V	M12	XMLP160BD72 (1)	0.050
	EN 175301-803-A	XMLP160BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP160BD12 (1)	0.050
	EN 175301-803-A	XMLP160BC12 (1)	0.050

0 to 250 bar (0 to 3625 psi)			
Maximum permissible accidental pressure: 500 bar, destruction pressure: 1000 bar			
Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP250BD22 (1)	0.050
	EN 175301-803-A	XMLP250BC22 (1)	0.050
0...10 V	M12	XMLP250BD72 (1)	0.050
	EN 175301-803-A	XMLP250BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP250BD12 (1)	0.050
	EN 175301-803-A	XMLP250BC12 (1)	0.050

0 to 400 bar (0 to 5800 psi)			
Maximum permissible accidental pressure: 800 bar, destruction pressure: 1600 bar			
Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP400BD22 (1)	0.050
	EN 175301-803-A	XMLP400BC22 (1)	0.050
0...10 V	M12	XMLP400BD72 (1)	0.050
	EN 175301-803-A	XMLP400BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP400BD12 (1)	0.050
	EN 175301-803-A	XMLP400BC12 (1)	0.050

0 to 600 bar (0 to 8700 psi)			
Maximum permissible accidental pressure: 1200 bar, destruction pressure: 2400 bar			
Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP600BD22 (1)	0.050
	EN 175301-803-A	XMLP600BC22 (1)	0.050
0...10 V	M12	XMLP600BD72 (1)	0.050
	EN 175301-803-A	XMLP600BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP600BD12 (1)	0.050
	EN 175301-803-A	XMLP600BC12 (1)	0.050

(1) Sold in lots of 40: Add the letter Q to the end of the reference selected.
Example: XMLP160BD22 becomes XMLP160BD22Q.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue 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: 1000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP100PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP100PP23 (1)	0.050
0...10 V	M12	XMLP100PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP100PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP100PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP100PP13 (1)	0.050

0 to 150 psi (0 to 10.3 bar)

Maximum permissible accidental pressure: 300 psi, destruction pressure: 1500 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP150PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP150PP23 (1)	0.050
0...10 V	M12	XMLP150PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP150PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP150PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP150PP13 (1)	0.050

0 to 200 psi (0 to 13.8 bar)

Maximum permissible accidental pressure: 400 psi, destruction pressure: 2000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP200PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP200PP23 (1)	0.050
0...10 V	M12	XMLP200PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP200PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP200PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP200PP13 (1)	0.050

0 to 300 psi (0 to 20.7 bar)

Maximum permissible accidental pressure: 600 psi, destruction pressure: 2400 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP300PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP300PP23 (1)	0.050
0...10 V	M12	XMLP300PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP300PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP300PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP300PP13 (1)	0.050

0 to 600 psi (0 to 41.4 bar)

Maximum permissible accidental pressure: 1200 psi, destruction pressure: 4800 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP600PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP600PP23 (1)	0.050
0...10 V	M12	XMLP600PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP600PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP600PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP600PP13 (1)	0.050

(1) Sold in lots of 40: Add the letter Q to the end of the reference selected.
Example: XMLP150PD23 becomes XMLP150PD23Q.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel 304 fluid entry.

With analogue 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: 6000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP1K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP1K0PP23 (1)	0.050
0...10 V	M12	XMLP1K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP1K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP1K0PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP1K0PP13 (1)	0.050

0 to 2000 psi (0 to 138 bar)

Maximum permissible accidental pressure: 4000 psi, destruction pressure: 12,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP2K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP2K0PP23 (1)	0.050
0...10 V	M12	XMLP2K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP2K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP2K0PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP2K0PP13 (1)	0.050

0 to 3000 psi (0 to 207 bar)

Maximum permissible accidental pressure: 6000 psi, destruction pressure: 12,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP3K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP3K0PP23 (1)	0.050
0...10 V	M12	XMLP3K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP3K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP3K0PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP3K0PP13 (1)	0.050

0 to 6000 psi (0 to 414 bar)

Maximum permissible accidental pressure: 11,600 psi, destruction pressure: 24,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP6K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP6K0PP23 (1)	0.050
0...10 V	M12	XMLP6K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP6K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP6K0PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP6K0PP13 (1)	0.050

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

Maximum permissible accidental pressure: 17,400 psi, destruction pressure: 40,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLP10KPD23 (1)	0.050
	Packard Metri-Pack 150	XMLP10KPP23 (1)	0.050
0...10 V	M12	XMLP10KPD73 (1)	0.050
	Packard Metri-Pack 150	XMLP10KPP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP10KPD13 (1)	0.050
	Packard Metri-Pack 150	XMLP10KPP13 (1)	0.050

(1) Sold in lots of 40: Add the letter Q to the end of the reference selected.
Example: XMLP1K0PD23 becomes XMLP1K0PD23Q.



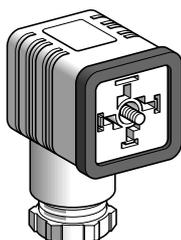
XMLZL016



XZCC12FCM40B



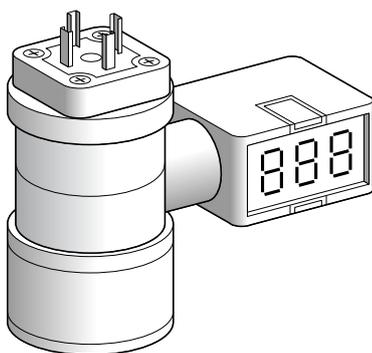
XZCC12FDM40B



XZCC43FCP40B



XZCP1241L5 XZCP1141L10



XMLEZ●●●

Accessories

Description	Type	Reference	Weight kg
Seal (Pack of 10 seals)	–	XMLZL016	0.025
M12 female connector metal clamping ring (1)	Straight	XZCC12FDM40B	0.020
	Elbowed	XZCC12FCM40B	0.020
Female connector EN 175301-803-A (1)	–	XZCC43FCP40B	0.035

Description	Length of cable	Cable material	Reference	Weight 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 bar	Reference	Weight kg
Digital displays for pressure transmitters	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 connection accessories, please refer to our "OsiSense XZ cabling accessories" catalogue.



Example of direct mounting
on the pressure transmitter.

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



Presentation

Combined with a pressure transmitter, the ZMLP switch with display converts an analogue 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 analogue 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 analogue output and 4-pin M12 connector.

They can be mounted:

- Directly on the pressure transmitter. The product body can then pivot 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-segment/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

ZMLP switches with 4-digit display



ZMLPA1●2SH



ZMLPA1●2SW



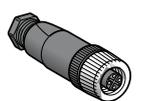
ZMLPA2●0SH



XMLPZLH01



XMLPZLV01



XZCC12FDM40B



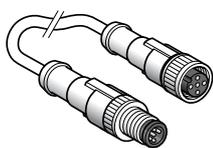
XZCC12MCM40B



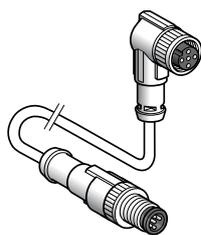
XZCP1141L●



XZCP1241L●



XZCR1511040A●



XZCR1512040A●

Switches with a display

for OsiSense XMLP pressure sensors (1)

Analogue 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 m	Reference	Weight kg
4-pin M12 connectors, for connection on screw terminals (2)			
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 22 to 27).

Switches with display are also compatible with XMLK●●●●2D2● and XMLG●●●●D2● pressure transmitters (see pages 10 to 19).

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

Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display

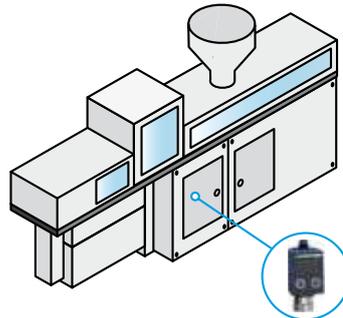
OsiSense XMLR

Electronic pressure sensors are used to control and measure pressure or vacuum levels in hydraulic or pneumatic systems. They convert 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 on which the switching point is adjustable.

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

Easy to mount

XMLR pressure sensors minimise installation time and effort. Their compact-sized, rotating body and "flip over display" function make mounting easy and flexible.



With its compact size, the OsiSense XMLR pressure sensor is easily integrated into the machine

Compact format

> 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

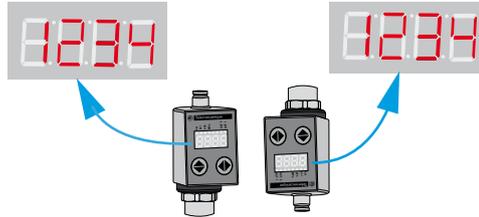
> The body of the OsiSense XMLR pressure sensor can be rotated 300°, thus enabling the user to orientate the front face of the product as required following connection to the pressure inlet pipe.



Easy to mount (continued)

Flip over display 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 the VDMA* standard

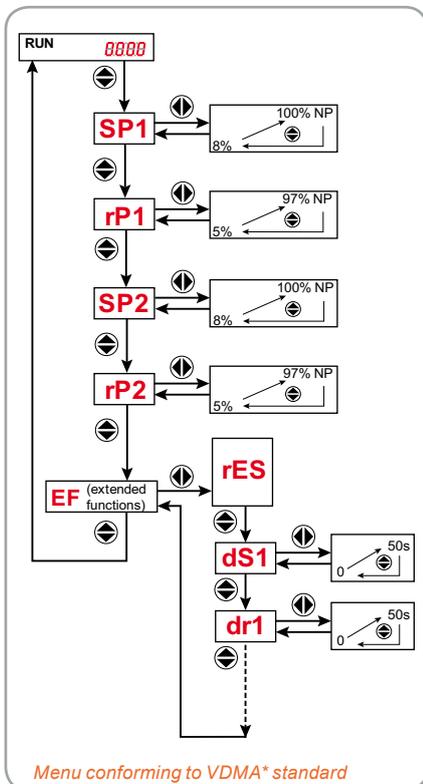
> The ergonomic design of OsiSense XMLR sets a new standard for ease of configuration.

Navigation using just two pushbuttons

> Two simple pushbuttons are all that is needed to navigate through an intuitive menu structured according to the 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 and the result of the test is indicated on the display (DONE or ERR).

For transmitters, this function can also be remotely activated by connecting the Test input to an automation platform, thus enabling automatic verification without the need for intervention by an operator.

In this instance, the self-test also generates an analogue output signal which is equivalent to 50% of the sensor size (12 mA or 5 V) which, in turn, can be verified by the automation platform.

The pressure sensor can be considered as defective if the difference between the signal transmitted and the standard theoretical value is too great.

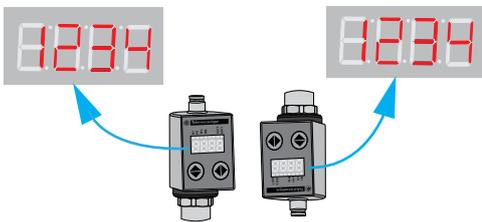
OsiSense XMLR pressure sensors also include a recording of the high and low pressure values measured since the last reset. These values can be displayed via the Hi and Lo menus.

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

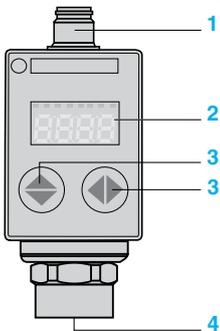
Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display.
Compact plastic body, stainless steel 316L fluid entry.
With analogue and solid-state outputs.



"Flip over display" function.



Presentation

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

Depending on the model, XMLR sensors are available with different output 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 4...20 mA analogue output and two switching outputs, PNP or NPN type

Compact and robust:

The stainless steel 316L fluid entry and fibreglass impregnated polyacrylamide body provide the XMLR pressure sensors with excellent mechanical resistance, improved corrosion resistance and an P65/IP67 degree of protection. Compact in size (88 mm to 100 mm overall, depending on model), 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.

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

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 "flip over 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 and output state (LED lit when the output has been activated).
- 3 Navigation keys for setting and configuring the menus (conforming to VDMA 24574).
- 4 Fluid entry: G 1/4 female, 1/4"-18 NPT 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° flip over display
- Display off, power saving mode

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

- Compensation offset in the range of $\pm 5\%$ of the units size
- Adjustment of pressure 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:

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

Fast diagnostic functions

- Illumination of all the display segments 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, up to 125% of the nominal pressure, and their subsequent display

Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display.
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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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

XMLR pressure sensors with 4-digit display.
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			
Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"-18 NPT (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			
Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"-18 NPT (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			
Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"-18 NPT (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

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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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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

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XMLR pressure sensors with 4-digit display.
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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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
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"- 18 NPT (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, minimum destruction pressure: 2500 bar

Analogue output type	Solid-state output type	Reference	Weight kg
Fluid connection G 1/4 (female)			
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

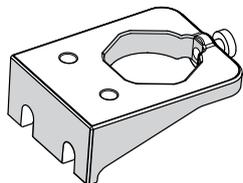
OsiSense XM

XMLR pressure sensors with 4-digit display

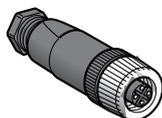
Accessories



XMLZL009



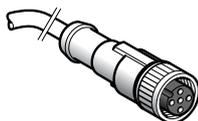
XMLZL017



XZCC12FDM●0B



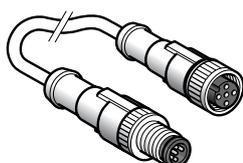
XZCC12FCM●0B



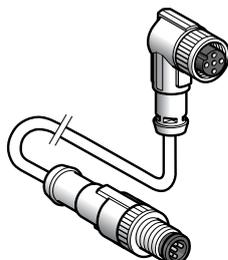
XZCP1141L●



XZCP1241L●



XZCR15110●●●●



XZCR15120●●●●

Accessories

Description	For use with	Reference	Weight kg
Cooler with G 1/4 A (male) connections Usage temperature: 150°C max. for the fluid, 50°C for the ambient air	XMLR●●●●●●●●5	XMLZL009	0.370
Fixing bracket aluminium	XMLR●●●	XMLZL017	0.029

Connectors

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

Pre-wired connectors and jumper cables

Description	For use with	Type	Length of cable	Reference	Weight kg
			m		
Pre-wired M12, 4-pin connectors Metal clamping ring PUR cable	XMLR●●●●0T●● XMLR●●●●1●●●● XMLR●●●●2P0● 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
Pre-wired M12, 5-pin connectors PVC cable	XMLR●●●●2P2● XMLR●●●●2N2●	Straight female connector	2	XZCPV11V12L2	0.100
			5	XZCPV11V12L5	0.200
			10	XZCPV11V12L10	0.400
		Elbowed female connector	2	XZCPV12V12L2	0.100
			5	XZCPV12V12L5	0.200
			10	XZCPV12V12L10	0.400
M12-M12 4-pin jumper cables PUR cable	XMLR●●●●0T●● XMLR●●●●1●●●● XMLR●●●●2P0● XMLR●●●●2N0●	Straight female connector	1	XZCR1511041C1	0.100
			2	XZCR1511041C2	0.100
		Elbowed female connector	1	XZCR1512041C1	0.100
			2	XZCR1512041C2	0.100
M12-M12 5-pin jumper cables PUR cable	XMLR●●●●2P2● XMLR●●●●2N2●	Straight female connector	1	XZCR1511064D1	0.100
			2	XZCR1511064D2	0.100
		Elbowed female connector	1	XZCR1512064D1	0.100
			2	XZCR1512064D2	0.100

X									
XMLMZ010	27	XMLG001D21	15	XMLP3K0PD23	26	XMLP040BC21V	22	XMLP250BD12	24
XMLMZ025	27	XMLG001D23	15	XMLP3K0PD73	26	XMLP040BC27	22	XMLP250BD22	24
XMLMZ060	27	XMLG001D31TQ	18	XMLP3K0PP13	26	XMLP040BC29	22	XMLP250BD72	24
XMLMZ100	27	XMLG001D41TQ	18	XMLP3K0PP23	26	XMLP040BC71V	22	XMLP300PD13	25
XMLMZ250	27	XMLG001D71	15	XMLP3K0PP73	26	XMLP040BD11V	22	XMLP300PD23	25
XMLMZ600	27	XMLG001D73TQ	15	XMLP6K0PD13	26	XMLP040BD19	22	XMLP300PD73	25
XMLG001D21	15	XMLGZ001	19	XMLP6K0PD23	26	XMLP040BD21V	22	XMLP300PP13	25
XMLG001D23	15	XMLK006B2C21	11	XMLP6K0PD73	26	XMLP040BD27	22	XMLP300PP23	25
XMLG001D31TQ	18	XMLK006B2C71	11	XMLP6K0PP13	26	XMLP040BD29	22	XMLP300PP73	25
XMLG001D41TQ	18	XMLK006B2D21	11	XMLP6K0PP23	26	XMLP040BD71V	22	XMLP400BC12	24
XMLG001D71	15	XMLK006B2D71	11	XMLP6K0PP73	26	XMLP040BD79	22	XMLP400BC22	24
XMLG001D73TQ	15	XMLK010B2C21	11	XMLP010BC11V	21	XMLP060BC11V	23	XMLP400BC72	24
XMLG006D21	15	XMLK010B2C71	11	XMLP010BC21V	21	XMLP060BC21V	23	XMLP400BD12	24
XMLG006D23	15	XMLK010B2D21	11	XMLP010BC27	21	XMLP060BC27	23	XMLP400BD22	24
XMLG006D71	15	XMLK010B2D71	11	XMLP010BC29	21	XMLP060BC29	23	XMLP400BD72	24
XMLG006D73TQ	15	XMLK016B2C21	11	XMLP010BC71V	21	XMLP060BC71V	23	XMLP600BC12	24
XMLG010D21	16	XMLK016B2C71	11	XMLP010BC79	21	XMLP060BD11V	23	XMLP600BC22	24
XMLG010D23	16	XMLK016B2D21	11	XMLP010BD11V	21	XMLP060BD21V	23	XMLP600BC72	24
XMLG010D31TQ	18	XMLK016B2D71	11	XMLP010BD19	21	XMLP060BD27	23	XMLP600BD12	24
XMLG010D41TQ	18	XMLK025B2C21	11	XMLP010BD21V	21	XMLP060BD29	23	XMLP600BD22	24
XMLG010D71	16	XMLK025B2D21	11	XMLP010BD27	21	XMLP060BD71V	23	XMLP600BD72	24
XMLG010D73	16	XMLK025B2D71	11	XMLP010BD29	21	XMLP060BD79	23	XMLP600PD13	25
XMLG010D73TQ	16	XMLK100P2C23	12	XMLP010BD71V	21	XMLP100BC12	23	XMLP600PD23	25
XMLG010Q21TQ	16	XMLK100P2C73	12	XMLP010BD79	21	XMLP100BC22	23	XMLP600PD73	25
XMLG010Q71TQ	16	XMLK100P2D23	12	XMLP010BD9	26	XMLP100BC72	23	XMLP600PP13	25
XMLG016D21	16	XMLK100P2D73	12	XMLP10KPD13	26	XMLP100BD12	23	XMLP600PP23	25
XMLG016D23	16	XMLK100P2P23	12	XMLP10KPD23	26	XMLP100BD22	23	XMLP600PP73	25
XMLG016D71	16	XMLK150P2C23	12	XMLP10KPD73	26	XMLP100BD72	23	XMLPM09BC11V	21
XMLG025D21	16	XMLK150P2C73	12	XMLP10KPP13	26	XMLP100PD13	25	XMLPM09BC21V	21
XMLG025D23	16	XMLK150P2D23	12	XMLP10KPP23	26	XMLP100PD23	25	XMLPM09BC71V	21
XMLG025D31TQ	18	XMLK150P2D73	12	XMLP10KPP73	26	XMLP100PD73	25	XMLPM09BD11V	21
XMLG025D41TQ	18	XMLK150P2P23	12	XMLP016BC11V	21	XMLP100PP13	25	XMLPM09BD21V	21
XMLG025D71	16	XMLK200P2C23	12	XMLP016BC21V	21	XMLP100PP23	25	XMLPM09BD71V	21
XMLG025D73TQ	16	XMLK200P2C73	12	XMLP016BC27	21	XMLP100PP73	25	XMLPZLH01	29
XMLG025Q21TQ	16	XMLK200P2D23	12	XMLP016BC29	21	XMLP150PD13	25	XMLPZLV01	29
XMLG100D21	17	XMLK200P2D73	12	XMLP016BC71V	21	XMLP150PD23	25	XMLR001G0T25	33
XMLG100D23	17	XMLK200P2P23	12	XMLP016BD11V	21	XMLP150PD73	25	XMLR001G0T26	33
XMLG100D31TQ	18	XMLK200P2D73	12	XMLP016BD19	21	XMLP150PP13	25	XMLR001G0T75	33
XMLG100D41TQ	18	XMLK300P2C23	12	XMLP016BD21V	21	XMLP150PP23	25	XMLR001G0T76	33
XMLG100D71	17	XMLK300P2C73	12	XMLP016BD27	21	XMLP150PP73	25	XMLR001G1N25	33
XMLG100D73TQ	17	XMLK300P2D23	12	XMLP016BD29	21	XMLP160BC12	24	XMLR001G1N26	33
XMLG100Q21TQ	17	XMLK300P2D73	12	XMLP016BD71V	21	XMLP160BC22	24	XMLR001G1N75	33
XMLG250D21	17	XMLK300P2P23	12	XMLP016BD79	21	XMLP160BC72	24	XMLR001G1P25	33
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XMLG250D31TQ	18	XMLP1K0PD23	26	XMLP025BC21V	22	XMLP160BD22	24	XMLR001G1P75	33
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XMLG250D71	17	XMLP1K0PP13	26	XMLP025BC29	22	XMLP200PD13	25	XMLR001G2N06	33
XMLG250D73TQ	17	XMLP1K0PP23	26	XMLP025BC71V	22	XMLP200PD23	25	XMLR001G2P05	33
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XMLG400D23	17	XMLP2K0PD23	26	XMLP025BD27	22	XMLP200PP13	25	XMLR2D5G0T25	33
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XMLG400D41TQ	18	XMLP2K0PP13	26	XMLP025BD71V	22	XMLP200PP73	25	XMLR2D5G1N25	33
XMLG400D71	17	XMLP2K0PP23	26	XMLP025BD77	22	XMLP250BC12	24	XMLR2D5G1N26	33
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						XMLP250BC72	24	XMLR2D5G1P25	33

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XMLR010G1N76	34	XMLR100M0T26	35	XMLR400M2P25	36		29		
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XMLR040G0T75	35					XZCR1512040A2	29		
						XZCR1512041C1	37		
						XZCR1512041C2	37		

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