

SCHNEIDER PRESSURE SENSORS & ACCESSORIES

XMLP PRESSURE TRANSMITTERS



Made of stainless steel, XMLP pressure transmitters are compact and rugged. With typical precision better than 0.5% of rating, these transmitters are suitable for wide range of industrial applications.

These transmitters integrate a “thin film” metal pressure measuring cell. This measuring cell which is welded directly onto the AISI 304 stainless steel transmitter body, offers the advantages of:

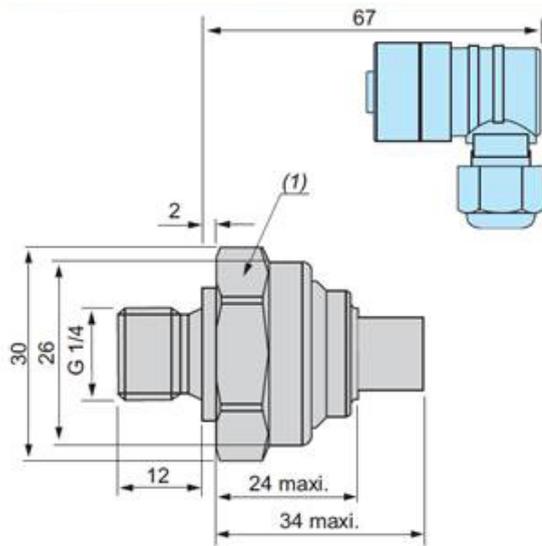
- An all-metal pressure chamber, with no elastomer gasket in contact with the fluid
- Compatibility with a large number of fluids including air, water, hydraulic oils, refrigeration fluids etc

The XMLP pressure transmitter can work with fluids from -30 ° C to 120 ° C.

PART NUMBER	DESCRIPTION
XMLP010BD21V	Pressure Transmitter 10BAR 4-20mA G1/4A M12
XMLP016BD21V	Pressure Transmitter 16BAR 4-20mA G1/4A M12
XMLP025BD21V	Pressure Transmitter 25BAR 4-20mA G1/4A M12

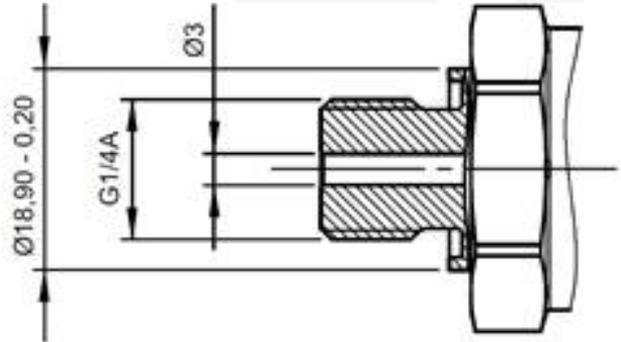
DIMENSIONS

XML P, M12 Connector



Fluid Connection

G/14 A (male) DIN 3852-E



DESCRIPTION	SPECIFICATIONS
Sizes	0-10, 16 & 25 Bar
Fluids or products controlled	Fresh water (0...+120 °C) Air, hydraulic oils, refrigeration fluids (-20...120 °C)
Fluid connection	G 1/4 A DIN 3852-E male
Rated supply voltage	12/24 DC (4...20 mA)
Voltage limits	8...30 DC (420 mA)
Current consumption	< 20 mA (4...20 mA)
Electrical connection	M12
Type of output	Analogue, 4...20 mA
Materials in contact with fluid	17-4PH stainless steel, stainless steel type AISI 304, fkm fluorocarbon (Viton)
Output response time	< 5 ms at 90% of maximum deviation
Precision including linearity, hysteresis, repeat accuracy	± 0.5% of the measuring range
Service life	> 10 million operating cycles
Dimensions of case (mm) width x height x depth	30 x 26 (with M12 connector)
Conforming to standards	CE, ROHS, EN/IEC 61326-1
Product certifications	cULus conforming to UL61010-1 & CSA-C22.2 no. 61010-1, EAC
Ambient air temperature for operation	-30...+120°C
Degree of protection	IP 65 or IP 67 conforming to EN/IEC 60529 IP 69K conforming to DIN 40050 (versions with M12 connector)
Vibration resistance	20 gn (10...2000 Hz) conforming to EN/IEC 60068-2-64
Shock resistance	25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27g

ZMLP SWITCHES WITH 4-DIGIT DISPLAY



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.

This product must be connected to an electronic pressure transmitter with 4...20 mA analogue output and 4-pin M12 connector. It can be mounted directly on the pressure transmitter. The product body can then pivot through 300°, enabling optimum orientation of the display and settings.

PART NUMBER	ZMLPA1P2SH
DESCRIPTION	SPECIFICATIONS
Display	7 segment/4-digit display. Pressure units in bar, psi or pascal. 41 display ranges can be selected, from 14.5 - 6000.
Rated supply voltage	24 DC
Voltage limits	17...33 DC
Current consumption	≤ 50 mA
Electrical connection	M12, 4-pin connector
Type of output	Analogue, 4...20mA + one switching output, PNP or NPN, 200 mA
Output response time	≤ 3 ms
Precision including linearity, hysteresis, repeat accuracy	± 1% of the measuring range
Service life	> 10 million operating cycles
Dimensions of case (mm) width x height x depth	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 & CSA-C22.2 no. 14, EAC
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

M12 CONNECTOR



Schneider's 4-pin angled female connectors available pre-wired with cable length of 2 meters. No wiring required, can be easily connected to XMLP pressure transmitters via M12 threaded connector, resulting an IP69K rated assembly well protected from dust and water ingress.

Depending on applications, the pre-wired cables are also available with both PVC and PUR outer jackets. PVC (Polyvinylchloride) being more suitable for general applications, it has good mechanical strength and chemical resistance, while PUR (polyurethane) has superior flexibility and abrasion resistance. For applications where existing cable is to be used, the M12 female connector is also available without a pre-wired cable.

PART NUMBER	DESCRIPTION
XZCC12FCM40B	M12 Female Angle Connector with metal clamping ring, 4 PINS, weight = 0.020 kg
XZCP1241L2	M12 Pre wired 4-pin Female connector with PUR cable, cable length = 2m
XZCPV1241L2	M12 Pre wired 4-pin Female connector with PVC cable, cable length = 2m



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