Product data sheet
Characteristics

XMLR160M2P05
Pressure sensors XMLR 160bar - G 1/4 - 24VDC - 2xPNP - M12



Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure sensor type	Pressure transmitter
Pressure switch type of operation	Pressure switch with 2 switching outputs
Device short name	XMLR
Pressure sensor size	2320 psi 16 MPa 160 bar
Maximum permissible accidental pressure	48 MPa 480 bar 6960 psi
Destruction pressure	13920 psi 960 bar 96 MPa
Controlled fluid	Fresh water (0...80 °C) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C)
Fluid connection type	G 1/4 (female) conforming to DIN 3852-Y
[Us] rated supply voltage	24 V DC SELV, voltage limits: 17...33 V

Complementary

Current consumption	<= 50 mA
Electrical connection	4 pins M12 male connector
Type of output signal	Discrete
Discrete output type	Solid state PNP, 2 NO/NC programmable
Maximum switching current	250 mA
Voltage drop	<= 2 V
Adjustable range of switching point on rising pressure	12.8...160 bar 186...2320 psi 1.28...16 MPa
Adjustable range of switching point on falling pressure	8...155 bar 0.8...15.5 MPa 116...2250 psi
Minimum differential travel	69.6 psi 0.48 MPa 4.8 bar
Materials in contact with fluid	316L stainless steel
Front material	Polyester
Housing material	Polyacrylamide 316L stainless steel
Operating position	Any position, but disposals can falsified the measurement in case of upside down mounting
Protection type	Reverse polarity Overvoltage protection Overload protection Short-circuit protection
Response time on output	<= 5 ms for discrete output
Time delay range	0...50 s in steps of 1 second
Display type	4 digits 7 segments
Local signalling	2 LEDs yellow for light ON when switch is actuated

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Display response time type	Fast 50 ms Normal 200 ms Slow 600 ms
Delay first up	<= 300 ms
Accuracy	<= 1 % of the measuring range
Measurement accuracy	<= 0.6 % of the measuring range
Repeat accuracy	<= 0.2 % of the measuring range
Drift of the sensitivity	+/- 0.03 % of measuring range/°C
Drift of the zero point	+/- 0.1 % of measuring range/°C
Display accuracy	<= 1 % of the measuring range
Mechanical durability	>= 10000000 cycles
Depth	42 mm
Height	88 mm
Width	41 mm
Product weight	0.186 kg
[Uimp] rated impulse withstand voltage	0.5 kV DC
Electromagnetic compatibility	Electrostatic discharge immunity test - test level 8 kV air, 4 kV contact conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4 Surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5 Immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6

Environment

Marking	CE
Product certifications	CULus EAC
Standards	UL 61010-1 EN/IEC 61326-2-3
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-40...80 °C
IP degree of protection	IP65 conforming to EN/IEC 60529 IP67 conforming to EN/IEC 60529
Vibration resistance	20 gn (f = 10...2000 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	50 gn conforming to EN/IEC 60068-2-27

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1351 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold