

Product Datasheet

Characteristic

XMLR010G0T26

Pressure sensors XMLR 10bar - 1/4" 18 NPT - 24VDC - 4..20 mA - M12



Main

range of product	OsiSense XM
product or component type	electronic pressure sensors
pressure switch type of operation	pressure transmitter
device short name	XMLR
pressure sensor size	145.04 psi (10 bar) 145 psi 1 MPa
maximum permissible accidental pressure	580.15 psi (40 bar) 580 psi 4 MPa
destruction pressure	580.15 psi (40 bar) 580 psi 4 MPa
controlled fluid	fresh water (32...176 °F (0...80 °C)) air (-20...80 °C) hydraulic oil (-20...80 °C) refrigeration fluid (-20...80 °C)
fluid connection type	1/4" - 18 NPT (female)
[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	analog
analogue output function	4...20 mA
materials in contact with fluid	ceramic fluorocarbon FKM (Viton) 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	overload protection overvoltage protection reverse polarity short-circuit protection
response time on output	<= 10 ms analog output

display type	4 digits 7 segments
display response time type	fast 50 ms normal 200 ms slow 600 ms
delay first up	<= 300 ms
accuracy	<= 1 % of the measuring range
linearity error	<= 0.5 % of the measuring range
hysteresis	<= 0.2 % 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	1.65 in (42 mm)
height	3.94 in (100 mm)
width	1.61 in (41 mm)
product weight	0.47 lb(US) (0.212 kg)
[Uimp] rated impulse withstand voltage	0.5 kV DC
electromagnetic compatibility	susceptibility to electromagnetic fields - test level 10 V/m (80...2000 MHz) conforming to EN/IEC 61000-4-3 immunity to conducted RF disturbances - test level 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 surge immunity test - test level 1 kV conforming to EN/IEC 61000-4-5 electrical fast transient/burst immunity test - test level 2 kV conforming to EN/IEC 61000-4-4 electrostatic discharge immunity test - test level 8 kV air, 4 kV contact conforming to EN/IEC 61000-4-2

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...176 °F (-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 -
REACH	Reference not containing SVHC above the threshold