Product data sheet
Characteristics

XMLF250D2025
pressure sensor 250 bar - G1/4 (female) - 24 V - NO or NC - 4..20 mA

Main

Range of product	OsiSense XM
Product or component type	Electronic pressure sensors
Pressure switch type of operation	Regulation between 2 thresholds
Pressure sensor name	XMLF
Wiring technique	4-wire
Pressure sensor size	250 bar
Fluid connection type	G 1/4 (female) conforming to ISO 228
Controlled fluid	Fresh water (0...80 °C) Hydraulic oil (-15...80 °C) Corrosive fluid (-15...80 °C) Air (-15...80 °C)
Type of output signal	Analogue + discrete
Analogue output function	4...20 mA
Discrete output type	Solid state PNP or NPN programmable, 1 NO or 1 NC programmable
Electrical connection	4 pins male connector M12
Product specific application	-
Adjustable range of switching point on rising pressure	20...250 bar
Adjustable range of switching point on falling pressure	12.5...242.5 bar
Destruction pressure	1500 bar
Type of installation	Control circuit
Scale type	Adjustable differential scale
Maximum switching current	200 mA
[Us] rated supply voltage	24 V DC, voltage limits: 17...33 V
Materials in contact with fluid	FPM (Viton) Stainless steel type AISI 303

Complementary

Setting	External setting
Possible differential minimum at low setting	7.5 bar
Possible differential minimum at high setting	7.5 bar
Possible differential maximum at high setting	237.5 bar
Maximum permissible accidental pressure	1000 bar
Local display	With
Protection type	Connection faults Overload protection Reverse polarity Short-circuit protection
Current consumption	80 mA
Operating rate in Hz	<= 50 Hz
Drift of the sensitivity	+/- 0.03 % of measuring range/°C
Drift of the zero point	+/- 0.1 % of measuring range/°C
Time delay range	0...50 s in steps of 1 second

Response time on output	5...500 ms, in steps of 1 ms
Mechanical durability	>= 10000000 cycles
Display response time type	Fast Normal Slow
Height	113 mm
Depth	58 mm
Width	46 mm
Product weight	0.59 kg
Surge withstand	0.5 kV DC
Measurement accuracy	<= 0.6 % of the measuring range
Repeat accuracy	<= 0.5 %

Environment

Operating position	Any position
Standards	CE EN 50081 EN 50082 EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 61000-4-11 EN/IEC 61000-4-2 EN/IEC 61000-4-3 EN/IEC 61000-4-4 EN/IEC 61000-4-5 EN/IEC 61000-4-6 EN/IEC 61000-6-2 EN/IEC 61000-4-8
Product certifications	CSA UL
Ambient air temperature for operation	-25...80 °C
Vibration resistance	5 gn (f = 25...200 Hz) conforming to EN/IEC 60068-2-6 35 gn (f = 60...2000 Hz) conforming to EN/IEC 60068-2-6
Protective treatment	TC
Shock resistance	50 gn conforming to EN/IEC 60068-2-27
Resistance to fast transients	2 kV conforming to EN/IEC 61000-4-4
IP degree of protection	IP67 conforming to EN/IEC 60529
NEMA degree of protection	NEMA 12 NEMA 13 NEMA 4 NEMA 6
Resistance to electrostatic discharge	8 kV (in air) conforming to EN/IEC 61000-4-2 4 kV (on contact) conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m conforming to EN/IEC 61000-4-3
Resistance to conducted disturbances, induced by radio frequency fields	10 V conforming to EN/IEC 61000-4-6

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold