

# Product Datasheet

## Characteristic

# ZMLPA1P2SH

Display & switch ZMLP - 24VDC - 4..20  
mA - PNP - hysteresis - M12



## Main

range of product	OsiSense XM
product or component type	Electronic pressure sensors
device short name	ZMLP

## Complementary

display range	-14.5...6000
[Us] rated supply voltage	24 V DC SELV 17...33 V)
current consumption	<= 50 mA
electrical connection	Female connector M12, 2 pins Male connector M12, 4 pins
type of output signal	Analogue + discrete
analogue output function	4...20 mA
discrete output type	Solid state PNP, NO/NC programmable
switching function	Hysteresis
maximum switching current	200 mA
maximum voltage drop	2 V
adjustable range of switching point on rising pressure	5...98 % of selected display range
adjustable range of switching point on falling pressure	2...95 % of selected display range
minimum differential travel	3 % of selected display range
marking	CE
front material	Polyester
housing material	PBT Valox
operating position	Any position
protection type	Reverse polarity Overload protection Short-circuit protection Overvoltage protection
response time on output	<= 3 ms analog output <= 3 ms discrete output
display type	4 digits 7 segments
local signalling	Light ON when switch is actuated 1 LED yellow)
response time	300 ms

maximum delay first up	100 ms
accuracy	<= - 0.1 % of the measuring range
measurement accuracy	<= 1 % of the measuring range
display accuracy	<= 1 % of the measuring range
mechanical durability	10000000 cycles
Maximum Depth	1.65 in (42 mm)
Maximum Height	3.03 in (77 mm)
Maximum Width	1.61 in (41 mm)
Net Weight	0.23 lb(US) (0.103 kg)
[Uimp] rated impulse withstand voltage	0.5 kV DC

## Environment

product certifications	EAC CULus
standards	EN/IEC 61000-6-4 UL 508 EN/IEC 61000-6-2
ambient air temperature for operation	-13...158 °F (-25...70 °C)
ambient air temperature for storage	-22...176 °F (-30...80 °C)
IP degree of protection	IP67 EN/IEC 60529 IP65 EN/IEC 60529 IP69K DIN 40050
vibration resistance	5 gn 10...2000 Hz)EN/IEC 60068-2-6
shock resistance	25 gn EN/IEC 60068-2-27
electromagnetic compatibility	Immunity to conducted RF disturbances 10 V 0.15...80 MHz EN/IEC 61000-4-6 Surge immunity test 1 kV EN/IEC 61000-4-5 Electrical fast transient/burst immunity test 2 kV EN/IEC 61000-4-4 Susceptibility to electromagnetic fields 10 V/m 80...2000 MHz EN/IEC 61000-4-3 Electrostatic discharge immunity test 8 kV air, 4 kV contact EN/IEC 61000-4-2

## Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	ENVPEP1401011EN
Circularity Profile	ENVEOLI1401011EN