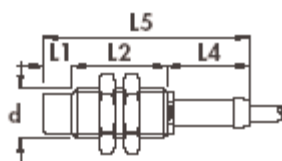


M12 12mm NAMUR Miniature Plastic Inductive 2mm/4mm ranges



M1

M12 12mm NAMUR Plastic Miniature Inductive Proximity Sensor

2 mm shielded range

4 mm unshielded range

2 wire 5-30VDC

miniaturized body design

2 meter standard integrated cable

IP67 protection degree

protection from electrical damages

plastic housing

(shielded/unshielded)

L1

M1 (7mm/0mm)

L2

M1 (30mm/23mm)

L4

M1 (20mm/0mm)

L5

M1 (50mm/30mm)

Parts Matrix

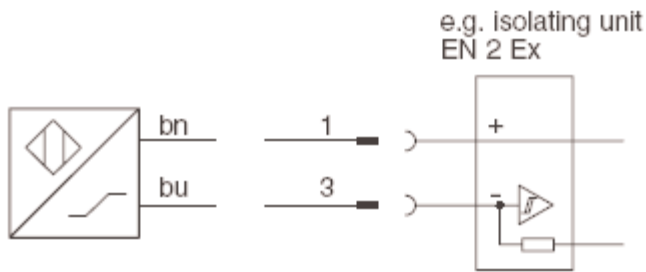
inductive sensor series	X	X
M12 12mm diameter body	12	12
NAMUR-standard ranges	N	N
plastic housing	P	P
2 wire device	2	2
PNP/NPN output	O	O
NC normally closed	2	2
NO normally open	1	1
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
range (mm)	2mm	4mm

PARTS INDEX

SPECIFICATIONS

X12NP2O1SM1B	PNP/NPN NO SHIEDLED M1
X12NP2O2SM1B	PNP/NPN NC SHIELDED M1
X12NP2O1UM1B	PNP/NPN NO UNSHIEDLED M1
X12NP2O2UM1B	PNP/NPN NC UNSHIELDED M1

Wiring Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	1.5mm	2.5mm
Supply Voltage NAMUR	7.7-9VDC	7.7-9VDC
Operating Voltage U_b	5-30VDC	5-30VDC
Ripple U_{pp}	<10% U_b	<10% U_b
Internal Capacitance	<180nF	<180nF
Internal Inductance	<100uH	<100uH
Output Type	NAMUR PNP/NPN NC PNP/NPN NO	NAMUR PNP/NPN NC PNP/NPN NO
Switching Frequency	5KHz	3KHz
Time Delay Before Availability t_v	10ms	10ms
Power Consumption attenuated	<1.0mA	<1.0mA
Power Consumption unattenuated	<2.2mA	<2.2mA
Ambient Temperature T_a	-25--+70C	-25--+70C
Temperature Drift	+/- 10% SR	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP67	IEC IP67
Housing Material	plastic	plastic
Sensing Face Material	PBT	PBT
Tightening Torque	2Nm	2Nm