

M12 12mm 20-253 VAC Inductive Sensor Plastic 2mm/4mm ranges

M12 12mm
AC Inductive 20-253VAC
Inductive Proximity Sensor

2 mm shielded range

4 mm unshielded range

2 wire 20-253VAC

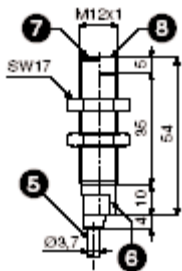
miniaturized body design

2 meter standard integrated cable

IP67 protection degree

protection from electrical damages

plastic housing



1 M1 axial cable

5 M1 cable 3x0.055mm, 3.1mm diameter, PUR, 2m

6 LED status indicator (NO output energized)

7 Shielded version

8 Unshielded version



PARTS INDEX

SPECIFICATIONS

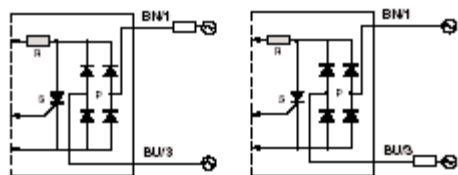
X12DP2A1SM1B
X12DP2A1UM1B
X12DP2A2SM1B
X12DP2A2UM1B

NO SHIELDED M1
NC UNSHIELED M1
NO SHIELDED M1
NC UNSHIELDED M1

Parts Matrix

inductive sensor series	X	X
M12 12mm diameter body	12	12
standard diameter-standard ranges	D	D
plastic housing	P	P
2 wire device	2	2
AC	A	A
NO normally open	1	1
NC normally closed	2	2
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
range (mm)	2mm	4mm
load current	500mA	500mA

Wiring Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	2 mm	4 mm
Operating Distance	-	-
Differential Travel	10% Typ	10% Typ
Repeat Accuracy R	2%	2%
Operating Voltage U_b	20-253VAC	20-253VAC
Ripple U_{pp}	<20% U_b	<20% U_b
Load Current I_a	<500mA	<500mA
Leakage Current	<10uA	<10uA
Voltage Drop U_a	5V	5V
Output Type	NO or NC	NO or NC
Switching Frequency	25Hz	25Hz
Time Delay Before Availability t_v	100ms	100ms
Supply Electrical Protections	polarity reversal, transient	polarity reversal, transient
Output Electrical Protections	short circuit protection (autoreset)	short circuit protection (autoreset)
Ambient Temperature T_a	-20--+75C	-20--+75C
Temperature Drift	+/- 10% SR	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP67	IEC IP67
LED Indicators	Yellow (NO output energized)	Yellow (NO output energized)
Housing Material	PBT	PBT
Sensing Face Material	plastic	plastic
Tightening Torque	-	-
Weight (approximate)	65G (M1)	65G (M1)