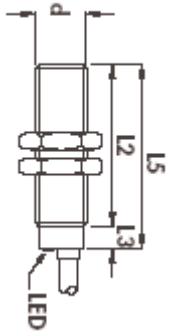


M12 12mm Plastic Body Inductive 3 Wire 2mm/4mm ranges



- L2** L2 (42mm)
- L3** L3 (5mm)
- L5** L5 (50mm)



M12 12mm Plastic Body Inductive Proximity Sensor
2 mm shielded range
4 mm unshielded range
3 wire 5-40VDC
2 meter standard integrated cable
IP67 protection degree
protection from electrical damages
Plastic housing

Parts Matrix

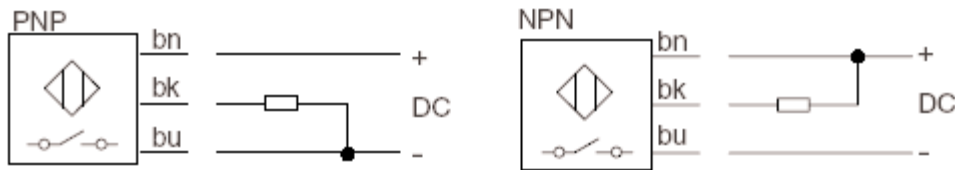
inductive sensor series	X	X
M12 12mm diameter body	12	12
standard diameter-standard ranges	D	D
plastic housing	P	P
3 wire device	3	3
PNP output	P	P
NPN output	N	N
NO normally open	1	1
NO normally open	2	2
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
range (mm)	2mm	4mm
load current	200mA	200mA

PARTS INDEX

SPECIFICATIONS

X12DP3P1SM1B	PNP NO SHIELDED M1
X12DP3P2SM1B	NPN NC SHIELDED M1
X12DP3N1SM1B	NPN NO SHIELDED M1
X12DP3N2SM1B	NPN NC SHIELDED M1
X12DP3P1UM1B	PNP NO UNSHIELDED M1
X12DP3P2UM1B	PNP NC UNSHIELDED M1
X12DP3N1UM1B	NPN NO UNSHIELDED M1
X12DP3N2UM1B	NPN NC UNSHIELDED M1

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	10-30VDC	10-30VDC
Ripple U_{pp}	<20% U_b	<20% U_b
No-load Supply	20mA	20mA
Load Current I_a	<200mA	<200mA
Leakage Current	<10uA	<10uA
Voltage Drop U_a	1.2V max.	1.2V max.
Output Type	PNP or NPN NO or NC	PNP or NPN NO or NC
Switching Frequency	2KHz	1.5KHz
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--+70C	-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	NBT	NBT
Sensing Face Material	plastic	plastic
Tightening Torque	-	-
Weight (approximate)	55g(M1)	55g(M1)