

**M18 18mm 20-253 VAC Inductive Sensor
5mm/8mm ranges Harsh Duty IP68**



**M18 18mm Harsh Duty
AC Inductive 20-253VAC
Inductive Proximity Sensor**

5 mm shielded range

8 mm unshielded range

2 wire 20-253VAC

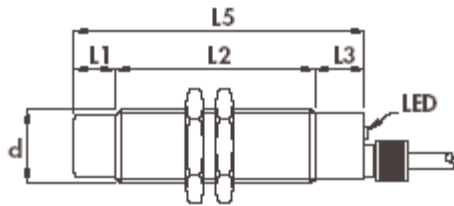
miniaturized body design

2 meter standard integrated cable

IP68 protection degree

protection from electrical damages

NBT nickel plated brass housing



- L1** L1 (na/10mm)
- L2** L2 (58mm/48mm)
- L3** L3 (12mm/12mm)
- L5** L5 (70mm/70mm)

PARTS INDEX

SPECIFICATIONS

X18PB2A1SM1B	NO SHIELDED M1
X18PB2A1UM1B	NO UNSHIELDED M1
X18PB2A2SM1B	NC SHIELDED M1
X18PB2A2UM1B	NC UNSHIELDED M1

Parts Matrix

inductive sensor series	X	X
M18 18mm diameter body	18	18
harsh duty standard diameter-standard ranges	P	P
nickel plated brass	B	B
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)	5mm	8mm
load current	500mA	500mA

Wiring Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	5 mm	8 mm
Operating Distance	-	-
Differential Travel	10% Typ	10% Typ
Repeat Accuracy R	5%	5%
Operating Voltage U_b	20-253VAC	20-253VAC
Ripple U_{pp}	<20% U_b	<20% U_b
In Rush	7A	7A
Load Current I_a	<500mA	<500mA
Leakage Current	<10uA	<10uA
Voltage Drop U_d	1.2V max.	1.2V max.
Output Type	NO or NC	NO or NC
Switching Frequency	25KHz	25KHz
Time Delay Before Availability t_v	200ms	200ms
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--+70C
Temperature Drift	+/- 10% SR	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP68	IEC IP68
LED Indicators	Yellow (NO output energized)	Yellow (NO output energized)
Housing Material	NBT	NBT
Sensing Face Material	PBT	PBT
Tightening Torque	-	-
Weight (approximate)	120g (M1)	120g (M1)