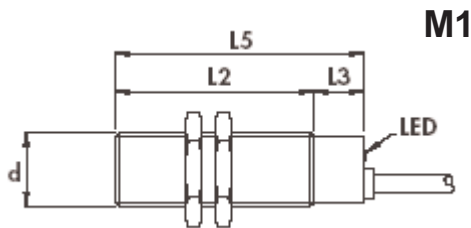


# M18 18mm Inductive Plastic Short Body 5mm/8mm ranges



M1

L2

M1 (50mm/50mm)

L3

M1 (10mm/10mm)

L5

M1 (30mm/30mm)

shielded/unshielded

M18 18mm Plastic Short Body Inductive Proximity Sensor
5 mm shielded range
8 mm unshielded range
3 wire 10-30VDC
miniaturized body design
2 meter standard integrated cable
IP67 protection degree
protection from electrical damages
plastic housing

## Parts Matrix

inductive sensor series	X	X
M18 18mm diameter body	18	18
standard diameter- standard ranges-short body	S	S
plastic housing	P	P
3 wire device	3	3
PNP output	P	P
NPN output	N	N
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	400mA	400mA

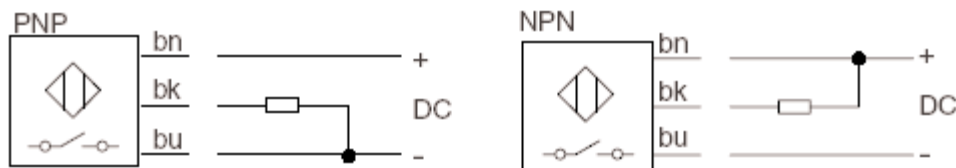
## PARTS INDEX

- X18SP3P1SM1B
- X18SP3P2SM1B
- X18SP3N1SM1B
- X18SP3N2SM1B
- X18SP3P1UM1B
- X18SP3P2UM1B
- X18SP3N1UM1B
- X18SP3N2UM1B

## SPECIFICATIONS

- PNP NO SHIELDED M1
- PNP NC SHIEDLED M1
- NPN NO SHIELDED M1
- NPN NC SHIELDED M1
- PNP NO UNSHIELDED M1
- PNP NC UNSHIELDED M1
- NPN NO UNSHIELDED M1
- NPN NC UNSHIELDED M1

## Wiring Diagram



## TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	5 mm	8 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 $U_d$	1.2V max.	1.2V max.
Output Type	PNP or NPN NO or NC	PNP or NPN NO or NC
Switching Frequency	150Hz	150Hz
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	plastic	plastic
Sensing Face Material	PBT	PBT
Tightening Torque	30Nm	30Nm
Weight (approximate)	110g (M1)	110g (M1)