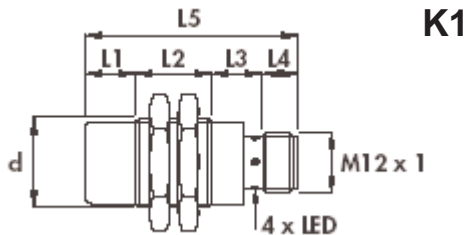
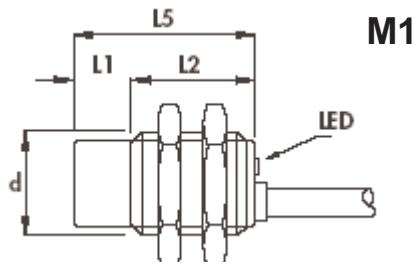


# M18 18mm Short Body Inductive 5mm/8mm ranges



<b>M18 18mm Short Body Inductive Proximity Sensor</b>
<b>5 mm shielded range</b>
<b>8 mm unshielded range</b>
<b>3 wire 10-30VDC</b>
<b>miniaturized body design</b>
<b>2 meter standard integrated cable</b>
<b>IP67 protection degree</b>
<b>protection from electrical damages</b>
<b>NBT nickel plated brass housing</b>



- L1
- L2
- L3
- L4
- L5

M1 (0mm/10mm)	K1 (0mm/10mm)
M1 (30mm/20mm)	K1 (30mm/25mm)
M1 (NA)	K1 (19mm/15mm)
M1 (NA)	K1 (8mm/8mm)
M1 (30mm/30mm)	K1 (57mm/68mm)

shielded/unshielded

## Parts Matrix

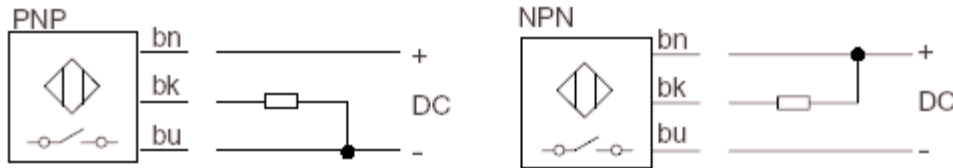
inductive sensor series	X	X
M18 18mm diameter body	18	18
short body diameter-standard ranges	S	S
nickel plated brass	B	B
3 wire device	3	3
PNP output	P	P
NPN output	N	N
NO normally open	1	1
NC normally closed	2	2
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
M12 4 Pin 12mm connector	K1	K1
range (mm)	8mm	12mm
load current	400mA	400mA

## PARTS INDEX

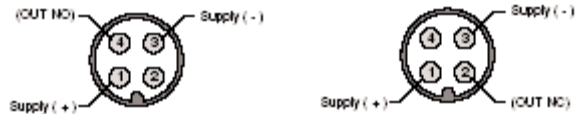
## SPECIFICATIONS

X18SB3P1SM1B	PNP NO SHIELDED M1
X18SB3P2SM1B	PNP NC SHIELDED M1
X18SB3N1SM1B	NPN NO SHIELDED M1
X18SB3N2SM1B	NPN NC SHIELDED M1
X18SB3P1UM1B	PNP NO UNSHIELDED M1
X18SB3P2UM1B	PNP NC UNSHIELDED M1
X18SB3N1UM1B	NPN NO UNSHIELDED M1
X18SB3N2UM1B	NPN NC UNSHIELDED M1
X18SB3P1SK1B	PNP NO SHIELDED K1
X18SB3P2SK1B	PNP NC SHIELDED K1
X18SB3N1SK1B	NPN NO SHIELDED K1
X18SB3N2SK1B	NPN NC SHIELDED K1
X18SB3P1UK1B	PNP NO UNSHIELDED K1
X18SB3P2UK1B	PNP NC UNSHIELDED K1
X18SB3N1UK1B	NPN NO UNSHIELDED K1
X18SB3N2UK1B	NPN NC UNSHIELDED K1

Wiring Diagram



K1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	8 mm	12 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	NBT	NBT
Sensing Face Material	PBT	PBT
Tightening Torque	30Nm	30Nm
Weight (approximate)	55g (K1) 130g (M1)	55g (K1) 130g (M1)