

M18 18mm 4X Ultra Range Inductive 10mm/14mm ranges



**M18 18mm Ultra Distance (4X)
Inductive Proximity Sensor**

10 mm shielded range

14 mm unshielded range

3 wire 10-30VDC

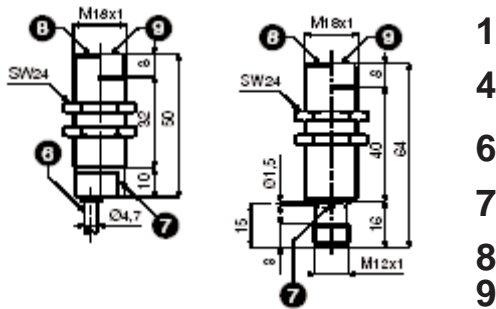
miniaturized body design

2 meter standard integrated cable

IP67 protection degree

protection from electrical damages

NBT nickel plated brass housing



- 1 M1 axial cable
- 4 K1 M12 4 pin 12mm connector
- 6 M1 cable 3x0.055mm, 3.1mm diameter, PUR
- 7 LED status indicator (NO output energized)
- 8 Shielded version
- 9 Unshielded version



Parts Matrix

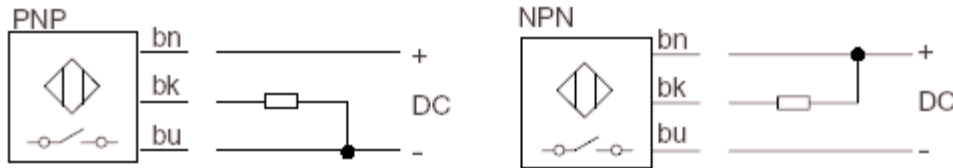
inductive sensor series	X	X
M18 18mm diameter body	18	18
standard diameter-ultra long distance ranges (4X)	X	X
nickel plated brass	B	B
3 wire device	3	3
PNP output	P	P
NPN output	N	N
NO normally open	1	1
NC normally closed	2	2
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
M12 4 Pin 12mm connector	K1	K1
range (mm)	10mm	14mm
load current	200mA	200mA

PARTS INDEX

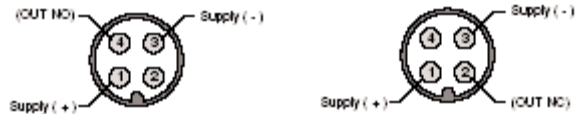
SPECIFICATIONS

X18XB3P1SM1B	PNP NO SHIELDED M1
X18XB3P2SM1B	PNP NC SHIEDLED M1
X18XB3N1SM1B	NPN NO SHIELDED M1
X18XB3N2SM1B	NPN NC SHIELDED M1
X18XB3P1UM1B	PNP NO UNSHIELDED M1
X18XB3P2UM1B	PNP NC UNSHIELDED M1
X18XB3N1UM1B	NPN NO UNSHIELDED M1
X18XB3N2UM1B	NPN NC UNSHIELDED M1
X18XB3P1SK1B	PNP NO SHIELDED K1
X18XB3P2SK1B	PNP NC SHIEDLED K1
X18XB3N1SK1B	NPN NO SHIELDED K1
X18XB3N2SK1B	NPN NC SHIELDED K1
X18XB3P1UK1B	PNP NO UNSHIELDED K1
X18XB3P2UK1B	PNP NC UNSHIELDED K1
X18XB3N1UK1B	NPN NO UNSHIELDED K1
X18XB3N2UK1B	NPN NC UNSHIELDED K1

Wiring Diagram



K1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	10 mm	14 mm
Operating Distance	-	-
Differential Travel	10% Typ	10% Typ
Repeat Accuracy R	2%	2%
Operating Voltage U_b	7-40VDC	7-40VDC
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	300Hz	200Hz
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	-25--+70C	-25--+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)