

M18 18mm Long Distance Inductive (2X) 8mm/12mm ranges



M18 18mm Long Distance (2X)
Inductive Proximity Sensor

5 mm shielded range

8 mm unshielded range

3 wire 10-30VDC

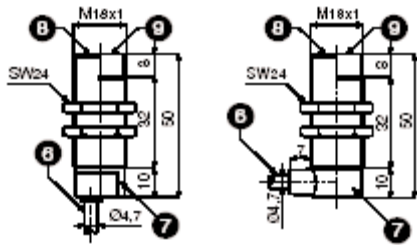
miniaturized body design

2 meter standard integrated cable

IP67 protection degree

protection from electrical damages

NBT nickel plated brass housing



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

M1 axial cable

M2 axial cable with tang

A1 90 degree cable

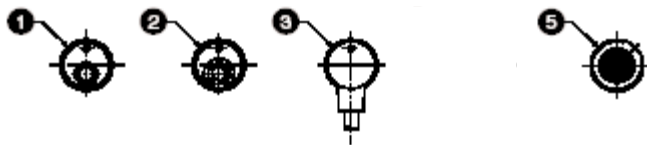
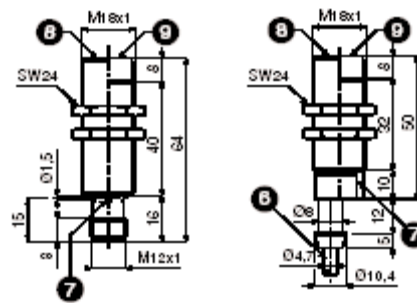
K1 M12 4 pin 12mm connector

M1 M2 A1 cable 3x0.055mm, 3.1mm diameter, PUR

LED status indicator (NO output energized)

Shielded version

Unshielded version



Parts Matrix

inductive sensor series	X	X		
M12 12mm diameter body	18	18		
standard diameter-long distance ranges (2X)	L	L		
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		
2m 90 degree integrated cable	A1	A1		
2M standard integrated cable with Tang	M2	M2		
M12 4 Pin 12mm connector	K1	K1		
range (mm)	8mm	12mm		
load current	400mA	400mA		

PARTS INDEX

SPECIFICATIONS

X18LB3P1SM1
X18LB3P2SM1
X18LB3N1SM1
X18LB3N2SM1

PNP NO SHIELDED M1
PNP NC SHIELDED M1
NPN NO SHIELDED M1
NPN NC SHIELDED M1

X18LB3P1UM1
X18LB3P2UM1
X18LB3N1UM1
X18LB3N2UM1

PNP NO UNSHIELDED M1
PNP NC UNSHIELDED M1
NPN NO UNSHIELDED M1
NPN NC UNSHIELDED M1

X18LB3P1SM2
X18LB3P2SM2
X18LB3N1SM2
X18LB3N2SM2

PNP NO SHIELDED M2
PNP NC SHIELDED M2
NPN NO SHIELDED M2
NPN NC SHIELDED M2

X18LB3P1UM2
X18LB3P2UM2
X18LB3N1UM2
X18LB3N2UM2

PNP NO UNSHIELDED M2
PNP NC UNSHIELDED M2
NPN NO UNSHIELDED M2
NPN NC UNSHIELDED M2

X18LB3P1SK1
X18LB3P2SK1
X18LB3N1SK1
X18LB3N2SK1

PNP NO SHIELDED K1
PNP NC SHIELDED K1
NPN NO SHIELDED K1
NPN NC SHIELDED K1

X18LB3P1UK1
X18LB3P2UK1
X18LB3N1UK1
X18LB3N2UK1

PNP NO UNSHIELDED K1
PNP NC UNSHIELDED K1
NPN NO UNSHIELDED K1
NPN NC UNSHIELDED K1

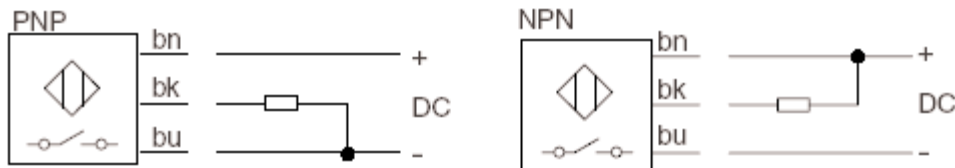
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X18LB3P2SA1
X18LB3N1SA1
X18LB3N2SA1

PNP NO SHIELDED A1
PNP NC SHIELDED A1
NPN NO SHIELDED A1
NPN NC SHIELDED A1

X18LB3P1UA1
X18LB3P2UA1
X18LB3N1UA1
X18LB3N2UA1

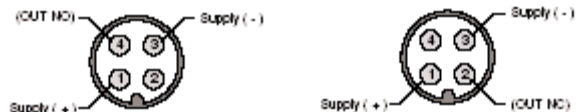
PNP NO UNSHIELDED A1
PNP NC UNSHIELDED A1
NPN NO UNSHIELDED A1
NPN NC UNSHIELDED A1

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 (autore-	short circuit protection (autore-
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	PBT	PBT
Tightening Torque	30Nm	30Nm
Weight (approximate)	55g (K1) 130g (M1)(M2)(A1)	55g (K1) 130g (M1)(M2)(A1)