

# M18 18mm Programmable Inductive 2 Wire 8mm/12mm ranges Long Range 2X

M18 18mm  
Programmable  
Inductive Proximity Sensor  
Long Range 2X  
8 mm shielded range

12 mm unshielded range

2 wire 10-30VDC

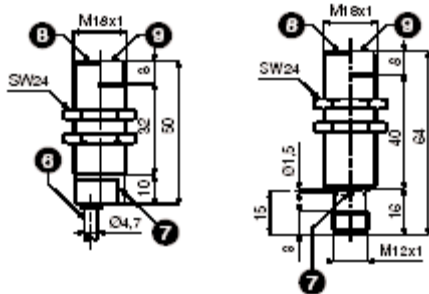
miniaturized body design

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
- 6 M1 cable 3x0.055mm, 3.1mm diameter, PUR, 2m
- 7 LED status indicator (NO output energized)
- 8 Shielded version
- 9 Unshielded version



## Parts Matrix

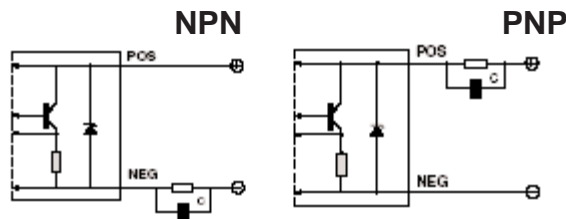
inductive sensor series	X	X
M18 18mm diameter body	18	18
standard diameter-2x ranges	L	L
nickel plated brass	B	B
2 wire device	2	2
Programmable Output PNP & NPN	O	O
NO normally open	1	1
NC normally closed	2	2
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
M12 4 Pin 12mm connector	K1	K1
range (mm)	8mm	12mm
load current	100mA	100mA

## PARTS INDEX

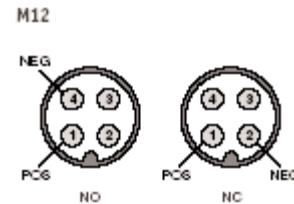
## SPECIFICATIONS

X18LB2O1SM1	PNP/NPN NO SHIELDED M1
X18LB2O1UM1	PNP/NPN NO UNSHIELDLED M1
X18LB2O2SM1	PNP/NPN NC SHIELDED M1
X18LB2O2UM1	PNP/NPN NC UNSHIELDLED M1
X18LB2O1SK1	PNP/NPN NO SHIELDED K1
X18LB2O1UK1	PNP/NPN NO UNSHIELDLED K1
X18LB2O2SK1	PNP/NPN NC SHIELDED K1
X18LB2O2UK1	PNP/NPN NC UNSHIELDLED 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 $I_a$	<100mA	<100mA
Leakage Current	<10uA	<10uA
Voltage Drop $U_a$	1.2V max.	1.2V max.
Output Type	PNP/NPN NO or NC Programmable	PNP/NPN NO or NC Programmable
Switching Frequency	150Hz	150Hz
Time Delay Before Availability $t_v$	50ms	50ms
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 IP67	IEC IP67
LED Indicators	Yellow (NO output energized)	Yellow (NO output energized)
Housing Material	NBT	NBT
Sensing Face Material	PBT	PBT
Tightening Torque	-	-
Weight (approximate)	30-70G (M1)(K1)	30-70G (M1)(K1)