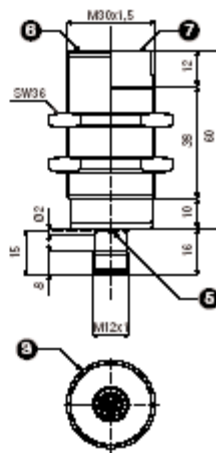
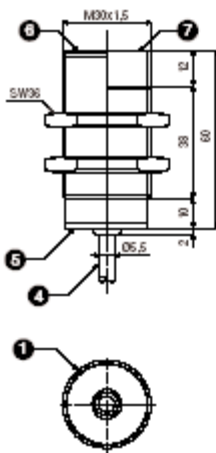


# M30 30mm Inductive Metal Housing 15mm/20mm ranges



- 1 M1 axial cable
- 3 K1 M12 4 pin 12mm connector
- 4 M1 cable 3x0.055mm, 3.1mm diameter, PUR
- 5 K1 M12 4 pin 12mm connector
- 6 Shielded version
- 7 Unshielded version

<b>M30 30mm Long Distance Inductive Proximity Sensor</b>
<b>15 mm shielded range</b>
<b>20 mm unshielded range</b>
<b>2 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>



### Parts Matrix

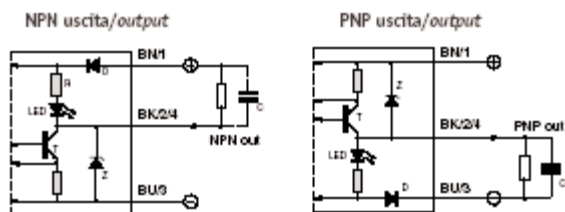
inductive sensor series	X	X
M30 30mm diameter body	30	30
standard diameter-long distance ranges	L	L
nickel plated brass	B	B
2 wire device	2	2
PNP/NPN output	O	O
NO normally open	1	1
NC normally closed	2	2
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
M12 4 Pin 12mm connector	K1	K1
range (mm)	15mm	20mm
load current	100mA	100mA

### PARTS INDEX

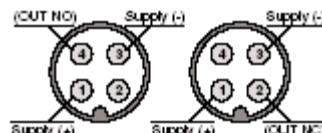
### SPECIFICATIONS

X30LB201SM1	PNP/NPN NO SHIELDED M1
X30LB202SM1	PNP/NPN NC SHIEDLED M1
X30LB201UM1	PNP/NPN NO UNSHIELDED M1
X30LB202UM1	PNP/NPN NC UNSHIELDED M1
X30LB201SK1	PNP/NPN NO SHIELDED K1
X30LB202SK1	PNP/NPN NC SHIEDLED K1
X30LB201UK1	PNP/NPN NO UNSHIELDED K1
X30LB202UK1	PNP/NPN NC UNSHIELDED K1

Wiring Diagram



K1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	15 mm	20 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	PNP/NPN NO or NC
Switching Frequency	75Hz	75Hz
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	60Nm	60Nm
Weight (approximate)	110g (K1) 180g (M1)	110g (K1) 180g (M1)