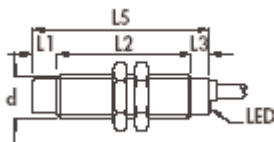


# M16 16mm Inductive Metal Housing 4mm/5.5mm ranges



<b>L1</b>	L1 (-/10mm)
<b>L2</b>	L2 (60/50mm)
<b>L3</b>	--
<b>L5</b>	L5 (60/60mm)

<b>M16 16mm Inductive Proximity Sensor</b>
<b>4 mm shielded range</b>
<b>5.5 mm unshielded range</b>
<b>3 wire &amp; 4 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
M16 16mm diameter body	16	16
standard diameter-standard ranges	D	D
nickel plated brass	B	B
3 wire device	3	3
4 wire device	(4)	(4)
PNP output	P	P
NPN output	N	N
NO normally open	1	1
NC normally closed	2	2
NO+NC normally open+normally closed*	3	3
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1

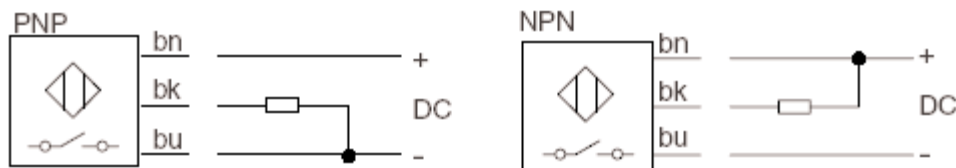
### PARTS INDEX

### SPECIFICATIONS

X16DB3P1SM1B	PNP NO SHIELDED M1
X16DB3P2SM1B	PNP NC SHIEDLED M1
X16DB3N1SM1B	NPN NO SHIELDED M1
X16DB3N2SM1B	NPN NC SHIELDED M1
X16DB3P1UM1B	PNP NO UNSHIELDED M1
X16DB3P2UM1B	PNP NC UNSHIEDLED M1
X16DB3N1UM1B	NPN NO UNSHIELDED M1
X16DB3N2UM1B	NPN NC UNSHIELDED M1
X16DB4P3SM1B	PNP NO+NC SHIELDED M1
X16DB4P3UM1B	PNP NO+NC UNSHIELDED M1
X16DB4N3SM1B	NPN NO+NC SHIELDED M1
X16DB4N3UM1B	NPN NO+NC UNSHIEDLED M1

\*available on 4 wire programmable only

## Wiring Diagram



\*see insert for 4 wire diagram

## TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	4 mm	5.5 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+NC	PNP or NPN NO or NC PNP or NPN NO+NC
Switching Frequency	2KHz	1KHz
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	-	-
Weight (approximate)	70G (M1)	70G (M1)