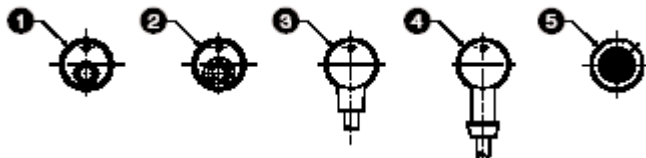
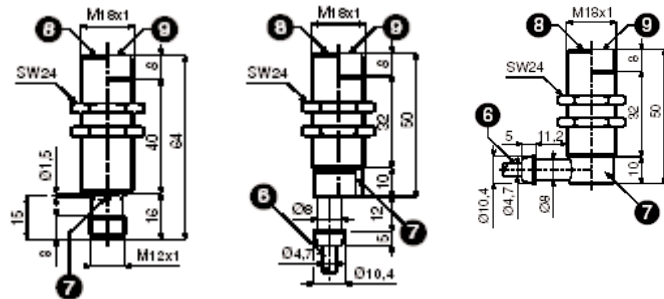
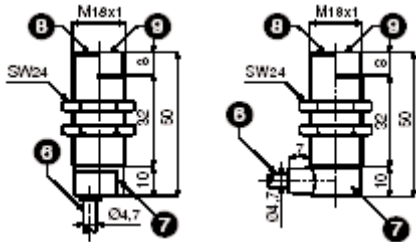


M18 18mm Inductive Metal Housing

5mm/8mm ranges



- 1 M1 axial cable
- 2 M2 axial cable with tang
- 3 A1 90 degree cable
- 4 A2 90 degree cable with tang
- 5 K1 M12 4 pin 12mm connector
- 6 M1 M2 A1 cable 3x0.055mm, 3.1mm diameter, PUR
- 7 LED status indicator (NO output energized)
- 8 Shielded version
- 9 Unshielded version



Parts Matrix

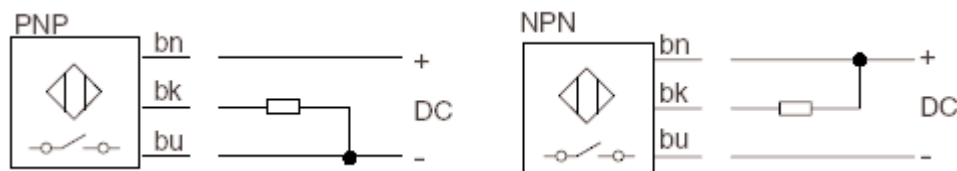
inductive sensor series	X	X		
M18 18mm diameter body	18	18		
standard diameter-standard ranges	D	D		
nickel plated brass	B	B		
3 wire device	3	3		
PNP output	P	P		
NPN output	N	N		
NO normally open	1	1		
NC normally closed	2	2		
shielded	S			
unshielded		U		
2m standard integrated cable	M1	M1		
2m 90 degree integrated cable	A1	A1		
2M standard integrated cable with Tang	M2	M2		
M12 4 Pin 12mm connector	K1	K1		
2m 90 degree integrated cable with Tang	A2	A2		
range (mm)	5mm	8mm		

M18 18mm 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

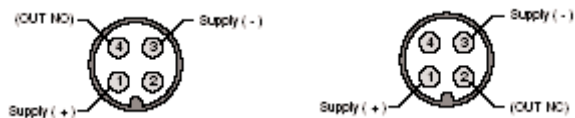
PARTS INDEX SPECIFICATIONS

X18DB3P1SM1	PNP NO SHIELDED M1
X18DB3P2SM1	PNP NC SHIELDED M1
X18DB3N1SM1	NPN NO SHIELDED M1
X18DB3N2SM1	NPN NC SHIELDED M1
X18DB3P1UM1	PNP NO UNSHIELDED M1
X18DB3P2UM1	PNP NC UNSHIELDED M1
X18DB3N1UM1	NPN NO UNSHIELDED M1
X18DB3N2UM1	NPN NC UNSHIELDED M1
X18DB3P1SM2	PNP NO SHIELDED M2
X18DB3P2SM2	PNP NC SHIELDED M2
X18DB3N1SM2	NPN NO SHIELDED M2
X18DB3N2SM2	NPN NC SHIELDED M2
X18DB3P1UM2	PNP NO UNSHIELDED M2
X18DB3P2UM2	PNP NC UNSHIELDED M2
X18DB3N1UM2	NPN NO UNSHIELDED M2
X18DB3N2UM2	NPN NC UNSHIELDED M2
X18DB3P1SK1	PNP NO SHIELDED K1
X18DB3P2SK1	PNP NC SHIELDED K1
X18DB3N1SK1	NPN NO SHIELDED K1
X18DB3N2SK1	NPN NC SHIELDED K1
X18DB3P1UK1	PNP NO UNSHIELDED K1
X18DB3P2UK1	PNP NC UNSHIELDED K1
X18DB3N1UK1	NPN NO UNSHIELDED K1
X18DB3N2UK1	NPN NC UNSHIELDED K1
X18DB3P1SA1	PNP NO SHIELDED A1
X18DB3P2SA1	PNP NC SHIELDED A1
X18DB3N1SA1	NPN NO SHIELDED A1
X18DB3N2SA1	NPN NC SHIELDED A1
X18DB3P1UA1	PNP NO UNSHIELDED A1
X18DB3P2UA1	PNP NC UNSHIELDED A1
X18DB3N1UA1	NPN NO UNSHIELDED A1
X18DB3N2UA1	NPN NC UNSHIELDED A1
X18DB3P1SA2	PNP NO SHIELDED A2
X18DB3P2SA2	PNP NC SHIELDED A2
X18DB3N1SA2	NPN NO SHIELDED A2
X18DB3N2SA2	NPN NC SHIELDED A2
X18DB3P1UA2	PNP NO UNSHIELDED A2
X18DB3P2UA2	PNP NC UNSHIELDED A2
X18DB3N1UA2	NPN NO UNSHIELDED A2
X18DB3N2UA2	NPN NC UNSHIELDED A2

Wiring Diagram



K1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	5 mm	8 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	.6KHz	.6KHz
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	-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)(A2)	55g (K1) 130g (M1)(M2)(A1)(A2)