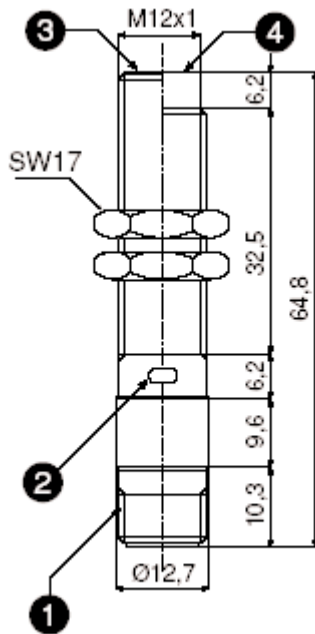


# M12 12mm Inductive Stainless Steel Housing 2mm/4mm ranges IP68 Ultra Harsh Duty



- 1 K1 M12 4 pin 12mm
- 2 LED status indicator
- 3 Shielded version
- 4 Unshielded version

M12 12mm Inductive Proximity Sensor
2 mm shielded range
4 mm unshielded range
3 wire 10-30VDC
miniaturized body design
M12 K1 4 pin connector standard
IP68 protection degree
protection from electrical damages
stainless steel housing/INOX

**PARTS INDEX**

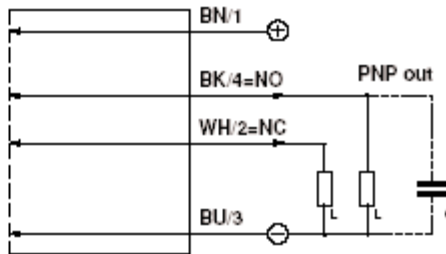
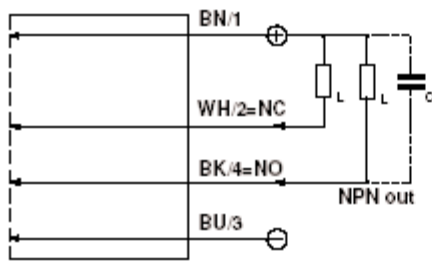
**SPECIFICATIONS**

X12PS3P3SK1	PNP NO/NC SHIELDED K1
X12PS3P3UK1	PNP NO/NC UNSHIELDED K1
X12PS3N3SK1	NPN NO/NC SHIELDED K1
X12PS3N3UK1	NPN NO/NC UNSHIELDED K1

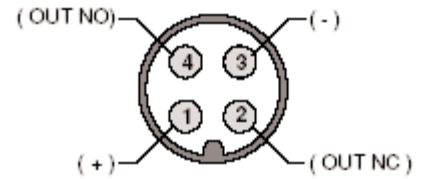
**Parts Matrix**

inductive sensor series	X	X
M12 12mm diameter body	12	12
harsh duty IP 68 - standard ranges	P	P
stainless steel housing	S	S
3 wire device	3	3
PNP output	P	P
NPN output	N	N
NO/NC complimentary	3	3
shielded	S	
unshielded		U
M12 4 Pin 12mm connector	K1	K1
range (mm)	2mm	4mm
load current	100mA	100mA

Wiring Diagram



K1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	2 mm	4 mm
Operating Distance	-	-
Differential Travel	10% Typ	10% Typ
Repeat Accuracy R	5%	5%
Operating Voltage $U_b$	10-30VDC	10-30VDC
Ripple $U_{pp}$	<10% $U_b$	<10% $U_b$
No-load Supply	18mA	18mA
Load Current $I_a$	<100mA	<100mA
Leakage Current	<10uA	<10uA
Voltage Drop $U_d$	1.2V max.	1.2V max.
Output Type	PNP or NPN NO + NC	PNP or NPN NO + NC
Switching Frequency	2KHz	2KHz
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--+70C
Temperature Drift	+/- 10% SR	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP68	IEC IP68
LED Indicators	Yellow (NO output energized)	Yellow (NO output energized)
Housing Material	stainless steel	stainless steel
Sensing Face Material	PPS	PPS
Tightening Torque	10Nm	10Nm
Weight (approximate)	35g (K1)	35g (K1)