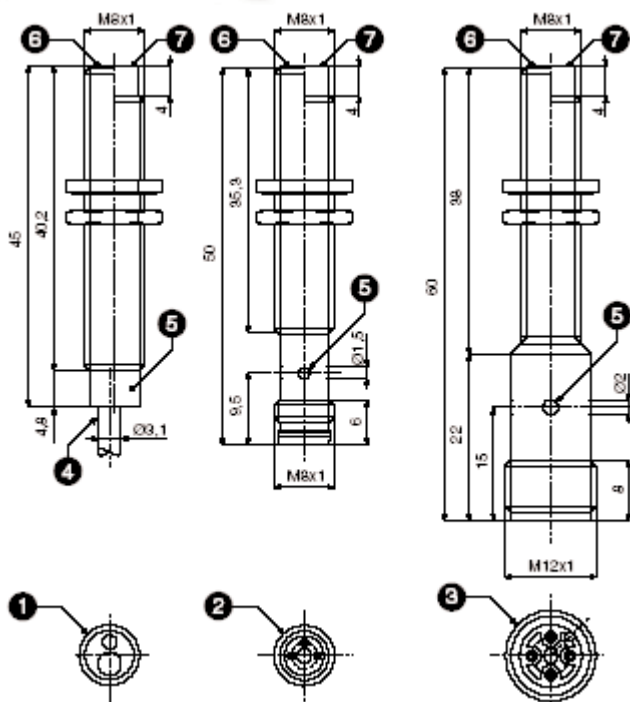


# M8 8mm Miniature Inductive Stainless Steel 1.5mm/2.5mm ranges



### Parts Matrix

inductive sensor series	X	X
M8 8mm diameter body	08	08
standard diameter-standard ranges	D	D
stainless steel	S	S
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
M8 3 Pin 8mm connector	E1	E1
M12 4 Pin 12mm connector	K1	K1
range (mm)	1.5mm	2.5mm
load current	200mA	200mA

M8 8mm Miniature Inductive Proximity Sensor
1.5 mm shielded range
2.5 mm unshielded range
3 wire 10-30VDC
miniaturized body design
2 meter standard integrated cable
IP67 protection degree
protection from electrical damages
stainless steel housing

- 1
- 2
- 3
- 4
- 5
- 6
- 7

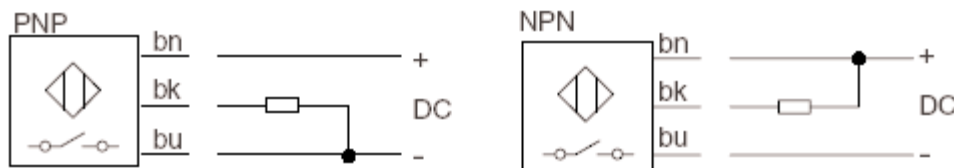
- 1 M1 axial cable
- 2 E1 M8 3 pin 8mm
- 3 K1 M12 4 pin 12mm
- 4 M1 cable 3x0.055mm, 3.1mm diameter, PUR, 2m
- 5 LED status indicator (NO output energized)
- 6 Shielded version
- 7 Unshielded version

### PARTS INDEX

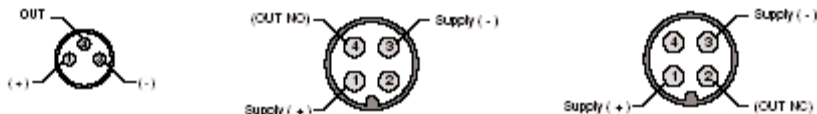
### SPECIFICATIONS

X08DS3P1SM1B	PNP NO SHIELDED M1
X08DS3P2SM1B	PNP NC SHIELDED M1
X08DS3N1SM1B	NPN NO SHIELDED M1
X08DS3N2SM1B	NPN NC SHIELDED M1
X08DS3P1UM1B	PNP NO UNSHIELDED M1
X08DS3P2UM1B	PNP NC UNSHIELDED M1
X08DS3N1UM1B	NPN NO UNSHIELDED M1
X08DS3N2UM1B	NPN NC UNSHIELDED M1
X08DS3P1SE1B	PNP NO SHIELDED E1
X08DS3P2SE1B	PNP NC SHIELDED E1
X08DS3N1SE1B	NPN NO SHIELDED E1
X08DS3N2SE1B	NPN NC SHIELDED E1
X08DS3P1UE1B	PNP NO UNSHIELDED E1
X08DS3P2UE1B	PNP NC UNSHIELDED E1
X08DS3N1UE1B	NPN NO UNSHIELDED E1
X08DS3N2UE1B	NPN NC UNSHIELDED E1
X08DS3P1SK1B	PNP NO SHIELDED K1
X08DS3P2SK1B	PNP NC SHIELDED K1
X08DS3N1SK1B	NPN NO SHIELDED K1
X08DS3N2SK1B	NPN NC SHIELDED K1
X08DS3P1UK1B	PNP NO UNSHIELDED K1
X08DS3P2UK1B	PNP NC UNSHIELDED K1
X08DS3N1UK1B	NPN NO UNSHIELDED K1
X08DS3N2UK1B	NPN NC UNSHIELDED K1

Wiring Diagram



E1/K1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	1.5 mm	2.5 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 or NC
Switching Frequency	3KHz	2.5KHz
Time Delay Before Availability $t_v$	100ms	100ms
Supply Electrical Protections	polarity reversal, transient	polarity reversal, transient
Output Electrical Protections	short circuit protection (autore-	short circuit protection (autore-
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	stainless steel	stainless steel
Sensing Face Material	PBT	PBT
Tightening Torque	-	-
Weight (approximate)	43g (M1) 16g (E1) 20g (K1)	43g (M1) 16g (E1) 20g (K1)