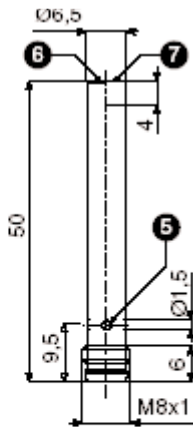


M65 6.5mm Long Range 1.5X Miniature Inductive 2.5mm/3.5mm ranges



5
6
7

5 LED status indicator (NO output energized)
6 Shielded version
7 Unshielded version

M65 6.5mm
Long Range 1.5X
Miniature Inductive Proximity Sensor

2.5 mm shielded range
3.5 mm unshielded range

3 wire 10-30VDC

miniaturized body design

E1 M8 connector standard

IP67 protection degree

protection from electrical damages

stainless steel housing

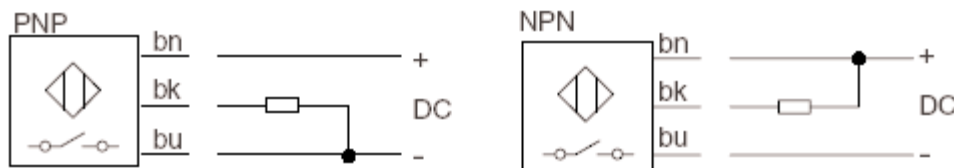
Parts Matrix

PARTS INDEX

SPECIFICATIONS

inductive sensor series	X	X	X65LS3P1SE1B X65LS3P2SE1B X65LS3N1SE1B X65LS3N2SE1B	PNP NO SHIELDED E1 PNP NC SHIEDLED E1 NPN NO SHIELDED E1 NPN NC SHIELDED E1
M65 6.5mm diameter body	65	65		
standard diameter-long ranges	L	L	X65LS3P1UE1B X65LS3P2UE1B X65LS3N1UE1B X65LS3N2UE1B	PNP NO UNSHIELDED E1 PNP NC UNSHIELDED E1 NPN NO UNSHIELDED E1 NPN NC UNSHIELDED E1
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		
M8 3 Pin 8mm connector	E1	E1		
range (mm)	2.5mm	3.5mm		
load current	200mA	200mA		

Wiring Diagram



E1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	2.5 mm	3.5 mm
Operating Distance	-	-
Differential Travel	10% Typ	10% Typ
Repeat Accuracy R	4%	4%
Operating Voltage U_b	7-30VDC	7-30VDC
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	800Hz	400Hz
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--+75C	-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)	7g (E1)	7g (E1)