

M65 6.5mm Short Body / Long Range 2.5 mm range shielded only

M65 6.5mm
Short Body Long Range
Miniature Inductive Proximity Sensor

2.5 mm shielded range

3 wire 10-30VDC

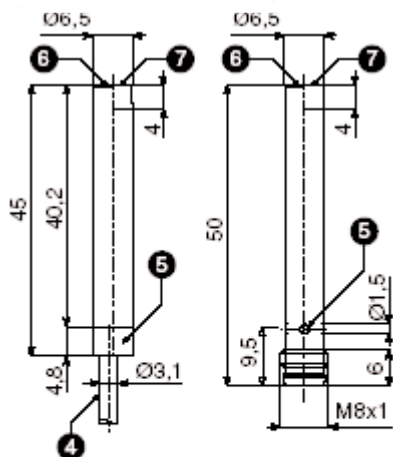
miniaturized body design

2 meter standard integrated cable

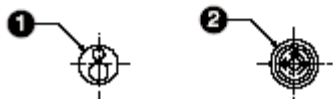
IP67 protection degree

protection from electrical damages

stainless steel housing



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



Parts Matrix

PARTS INDEX

SPECIFICATIONS

inductive sensor series

X

X65CS3P1SM1BS
X65CS3P2SM1BS
X65CS3N1SM1BS
X65CS3N2SM1BS

PNP NO SHIELDED M1
PNP NC SHIEDLED M1
NPN NO SHIELDED M1
NPN NC SHIELDED M1

M65 6.5mm diameter body

65

X65CS3P1SE1BS
X65CS3P2SE1BS
X65CS3N1SE1BS
X65CS3N2SE1BS

PNP NO SHIELDED E1
PNP NC SHIEDLED E1
NPN NO SHIELDED E1
NPN NC SHIELDED E1

short body long ranges

C

stainless steel

S

3 wire device

3

PNP output

P

NPN output

N

NO normally open

1

NC normally closed

2

shielded

S

2m standard integrated cable

M1

M8 3 Pin 8mm connector

E1

smooth body

BS

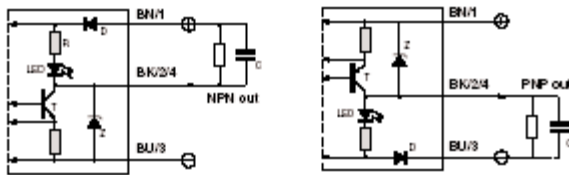
range (mm)

2.5mm

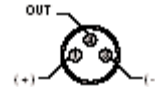
load current

200mA

Wiring Diagram



E1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	2 mm
Operating Distance	-
Differential Travel	10% Typ
Repeat Accuracy R	4%
Operating Voltage U_b	10-30VDC
Ripple U_{pp}	<20% U_b
No-load Supply	10mA
Load Current I_a	<200mA
Leakage Current	<10uA
Voltage Drop U_d	1.2V max.
Output Type	PNP or NPN NO or NC
Switching Frequency	800Hz
Time Delay Before Availability t_v	100ms
Supply Electrical Protections	polarity reversal, transient
Output Electrical Protections	short circuit protection (autoreset)
Ambient Temperature T_a	-25--+70C
Temperature Drift	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP67
LED Indicators	Yellow (NO output energized)
Housing Material	stainless steel
Sensing Face Material	PBT
Tightening Torque	-
Weight (approximate)	35g (M1) 7g (E1)