

# M65 6.5mm NAMUR Miniature Inductive 1.5 mm/2.5 mm ranges with LED



M65 6.5mm NAMUR  
Miniature Inductive Proximity Sensor  
with LED  
1.5 mm shielded range

2.5 mm unshielded range

2 wire 5-30VDC

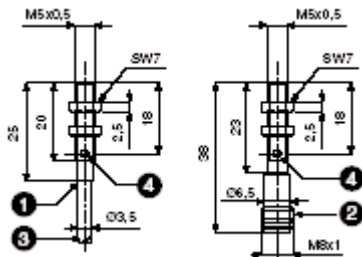
miniaturized body design

2 meter standard integrated cable

IP68 protection degree

protection from electrical damages

stainless steel housing

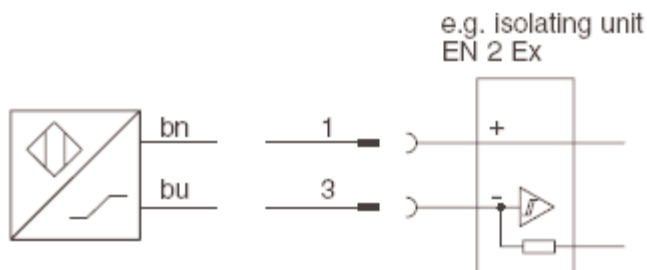


- 1 M1 axial cable
- 2 E1 M8 3 pin 8mm
- 3 M1 cable 3x0.055mm, 2.6mm diameter, PUR, 2m
- 4 LED status indicator (NO output energized)

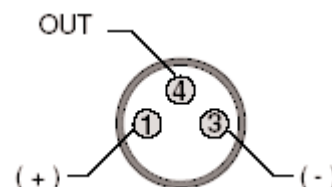
## Parts Matrix

			Part Number	Specifications
inductive sensor series	X	X	X65NS201SM1 X65NS202SM1	PNP/NPN NO shielded M1 PNP/NPN NC shielded M1
M65 6.5mm diameter body	65	65	X65NS201UM1 X65NS202UM1	PNP/NPN NO unshielded M1 PNP/NPN NC unshielded M1
standard diameter-NAMUR	N	N	X65NS201SE1 X65NS202SE1	PNP/NPN NO shielded M1 PNP/NPN NC shielded M1
stainless steel	S	S	X65NS201UE1 X65NS202UE1	PNP/NPN NO unshielded M1 PNP/NPN NC unshielded M1
2 wire device	2	2		
PNP/NPN output	O	O		
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		
range (mm)	1.5 mm	2.5 mm		

Wiring Diagram



E1 Connection Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance $S_n$	1.5mm	2.5mm
Supply Voltage NAMUR	7.7-9VDC	7.7-9VDC
Operating Voltage $U_b$	5-30VDC	5-30VDC
Ripple $U_{pp}$	<10% $U_b$	<10% $U_b$
Internal Capacitance	<180nF	<180nF
Internal Inductance	<100uH	<100uH
Output Type	NAMUR PNP/NPN-NC PNP/NPN NO	NAMUR PNP/NPN-NC PNP/NPN NO
Switching Frequency	4KHz	3KHz
Time Delay Before Availability $t_v$	10ms	10ms
Power Consumption attenuated	<1.0mA	<1.0mA
Power Consumption unattenuated	<2.2mA	<2.2mA
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	PBT	PBT
Tightening Torque	2Nm	2Nm