

M18 18mm NAMUR Inductive Sensor 5mm/8mm ranges with (LED)

M18 18mm
Inductive Proximity Sensor
NAMUR with LED
5 mm shielded range

8 mm unshielded range

2 wire 5-30VDC

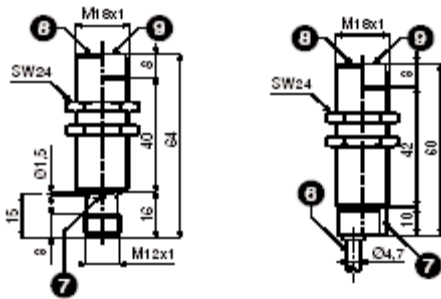
miniaturized body design

2 meter standard integrated cable

IP68 protection degree

protection from electrical damages

NBT nickel plated brass housing



6
7
8
9

Cable
LED
shielded
unshielded

PARTS INDEX

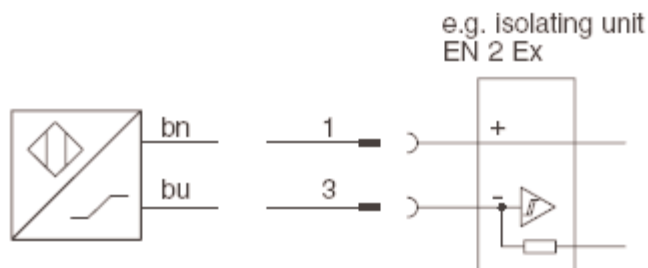
SPECIFICATIONS

X18NB2O2SM1BL	PNP/NPN NC SHIELDED M1
X18NB2O2UM1BL	PNP/NPN NC UNSHIEDLED M1
X18NB2O1SM1BL	PNP/NPN NO SHIELDED M1
X18NB2O1UM1BL	PNP/NPN NO UNSHIEDLED M1
X18NB2O2SK1BL	PNP/NPN NC SHIELDED K1
X18NB2O2UK1BL	PNP/NPN NC UNSHIEDLED K1
X18NB2O1SK1BL	PNP/NPN NO SHIELDED K1
X18NB2O1UK1BL	PNP/NPN NO UNSHIEDLED K1

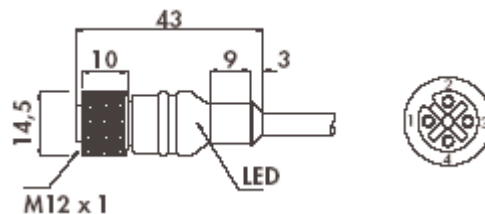
Parts Matrix

inductive sensor series	X	X
M18 18mm diameter body	18	18
NAMUR harsh duty-standard ranges	N	N
nickel plated brass	B	B
2 wire device 5-30VDC	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
M12 4 pin connector	K1	K1
range (mm)	5mm	8mm

Wiring Diagram



K1 Connector Diagram



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	5mm	8mm
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 NO PNP/NPN NC	NAMUR PNP/NPN NO PNP/NPN NC
Switching Frequency	800Hz	600Hz
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--+75C	-25--+75C
Temperature Drift	+/- 10% SR	+/- 10% SR
Protection Degree (DIN 40 050)	IEC IP68	IEC IP68
LED (NO energized)	LED	LED
Housing Material	NBT	NBT
Sensing Face Material	PBT	PBT
Tightening Torque	2Nm	2Nm