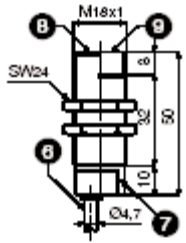


M18 18mm Inductive Plastic Housing 5mm/8mm ranges NO-NC



- 1 M1 axial cable
- 6 M1 cable 3x0.055mm, 3.1mm diameter, PUR
- 7 LED status indicator (NO output energized)
- 8 Shielded version
- 9 Unshielded version

M18 18mm Programmable Inductive Proximity Sensor
5 mm shielded range
8 mm unshielded range
3 wire 10-30VDC
miniaturized body design
2 meter standard integrated cable
IP67 protection degree
protection from electrical damages
plastic housing

PARTS INDEX

SPECIFICATIONS

X18DP4P3SM1B	PNP NO/NC SHIELDED M1
X18DP4P3UM1B	PNP NO/NC UNSHIEDLED M1
X18DP4N3SM1B	NPN NO/NC SHIELDED M1
X18DP4N3UM1B	NPN NO/NC UNSHIEDLED M1

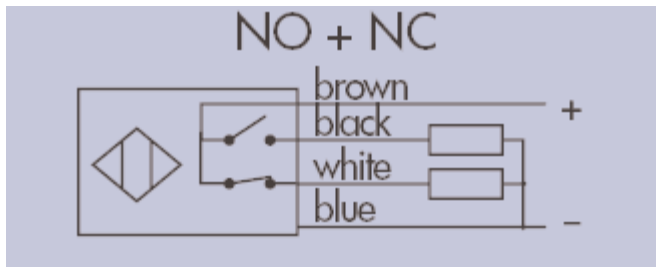


Parts Matrix

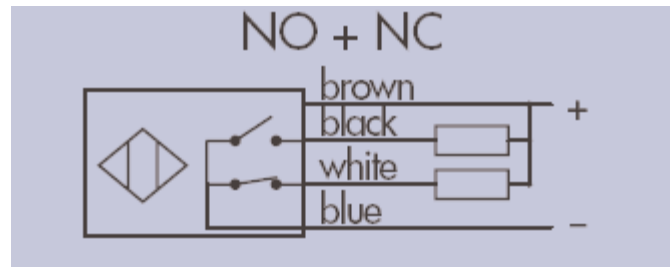
inductive sensor series	X	X
M18 18mm diameter body	18	18
standard diameter-standard ranges	D	D
plastic	P	P
4 wire device	4	4
PNP	P	
NPN		N
Programmable NO or NC	3	3
shielded	S	
unshielded		U
2m standard integrated cable	M1	M1
range (mm)	5mm	8mm
load current	100mA	100mA

Wiring Diagram

PNP



NPN



TECHNICAL SPECIFICATIONS

Nominal Sensing Distance S_n	5 mm	8 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	<400mA	<400mA
Leakage Current	<10uA	<10uA
Voltage Drop U_d	1.2V max.	1.2V max.
Output Type Programmable	PNP or NPN NO & NC	PNP or NPN NO & NC
Switching Frequency	1KHz	1KHz
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	-20--+75C	-20--+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	plastic	plastic
Sensing Face Material	PBT	PBT
Tightening Torque	30Nm	30Nm
Weight (approximate)	100g (M1)	100g (M1)