

Miniature Inductive 3-wire DC Proximity Switch PB1

IMO

- Ultra small M4 metal housing
- Shielded models
- IP67 Protection degree
- Polarity reverse, transient protection and short circuit
- LED status indicator
- Nominal sensing distance: Shielded Standard 0.6mm
Shielded Long Distance 1mm



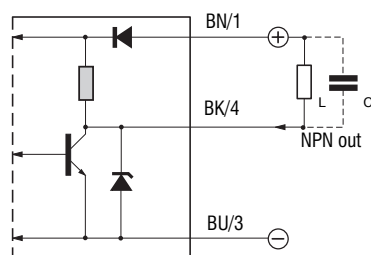
Options and ordering codes

PB1 / A N - 3 A	
Standard PB1	Standard cable exit A
Normally open output A	
Normally closed output ⁽¹⁾ C	
	1 Shielded Standard 3 Shielded Long Distance
PNP logic output P	
NPN logic output N	

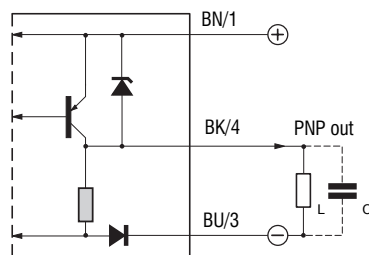
⁽¹⁾ Standard shielded only

Wiring diagrams

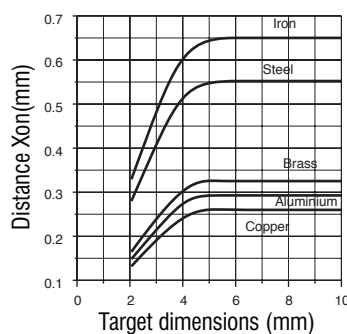
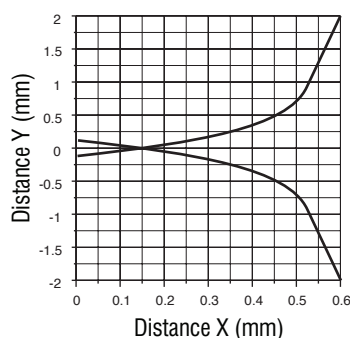
NPN output



PNP output



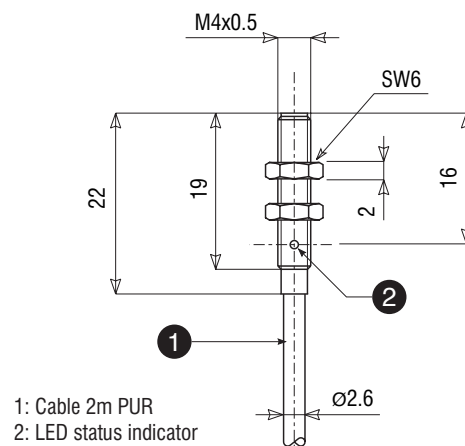
Characteristic curves (Shielded standard)



Specifications

Model	PB1
Differential travel	10% typical
Repeatability	2%
Supply voltage	10-30 VDC
Ripple	20% maximum
Maximum consumption	10mA
Switching frequency	2KHz
Output type	NPN or PNP
Output state	NO or NC
Load current	100mA maximum
Residual output voltage	0.6V max. IL=50mA
Leakage current	<10μA
Time before switch operation	10ms
Short circuit (auto reset)	yes
Transient protection	yes
Polarity reversal protection	yes
LED status indicator	yes
Protection degree	IP67
Temperature range	-25o +70o C
Temperature drift	10% Sr
Housing material	Nickel plated brass
Lens material	PBT
Weight (approx.)	23g

Dimensions (mm)



1: Cable 2m PUR
2: LED status indicator