

IMD Series Long Distance Small Diameter Cylindrical Proximity Switch

Milboo



■ Features

- Easy for connection, installation and application
- Super long sensing distance
- Stable and reliable
- Flexible cable
- Degree of protection: IP67
- Ambient temperature: -25~+70°C

IMD	04	-	01	NA	F
Series IMD Series	Size 04: M4 05: M5 06: M6		Sensing Distance 01: 1mm 1R5: 1.5mm	Output Mode NA: NPN NO NB: NPN NC PA: PNP NO PB: PNP NC	Shielding F: Shielded

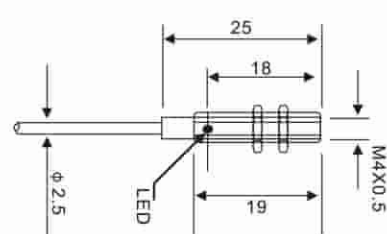
Model				
NPN NO	IMD04-01NAF	IMD05-1R5NAF	IMD05-1R5NAF-S ^③	IMD06-1R5NAF
NPN NC	IMD04-01NBF	IMD05-1R5NBF	IMD05-1R5NBF-S	IMD06-1R5NBF
PNP NO	IMD04-01PAF	IMD05-1R5PAF	IMD05-1R5PAF-S	IMD06-1R5PAF
PNP NC	IMD04-01PBF	IMD05-1R5PBF	IMD05-1R5PBF-S	IMD06-1R5PBF

Specification				
Sensing Distance ^①	1mm	1.5mm	1.5mm	1.5mm
Set Distance	0~0.8mm	0~1.2mm	0~1.2mm	0~1.2mm
Standard Sensing Object	4×4×1mm Ferrous metal	5×5×1mm Ferrous metal	5×5×1mm Ferrous metal	6×6×1mm Ferrous metal
Response Frequency ^②	1KHz			
Response Time	0.3ms			
Differential Travel	15% Max. of sensing distance			
Detectable Object	Ferrous Metal (The sensing distance decreases with non-ferrous metal. Refer to Data sheet)			
Power Supply Voltage (Operating Voltage Range)	12~24VDC, Ripple(p-p) 10% Max. (10~30DC full wave rectifier power supply)			
Current Consumption	10mA Max. @240VDC			
Load Current	Max.100mA	Max.150mA		
Residual Voltage	1.5V Max. @100mA load and 2M cable			
Leakage Current	0.01mA Max. @ 24VDC			
Indicators	Red			
Operation Mode	NA-Model: NO, NB-Model: NC.			
Short Circuit Protection	—	≥180mA		
Protection Circuit	—	Reverse Polarity protection, Surge suppressor		
Ambient Temperature Range	Operating / storage: -25~+70°C (with no icing or condensation)			
Ambient Humidity Range	Operating / storage: 35-95% (with no condensation)			
Temperature Influence	±10% Max. of sensing distance @+25°C in the temperature range			
Insulation Resistance	50MΩ Min. (at 500VDC) between current carrying parts and case			
Dielectric Strength	1000VAC 50/60Hz for 1 minute between current carrying parts and case			
Vibration/Shock Resistance	IEC 60947-5-2,Part7.4.1 / IEC 60947-55-2,Part7.4.2			
EMC	RFI>3V/M / EFT>1KV / ESD>4KV(contact)			
Degree of Protection	IEC standards EN60529:IP67			
Connection Method	Pre-wired 2M			
Weight (Packed state)	~15g	~20g	~20g	~23g
Materials of Case	Stainless Steel			
Materials of Sensing Surface	PA66			
Accessories	Clamping nuts. Mounting bracket available(optional)			

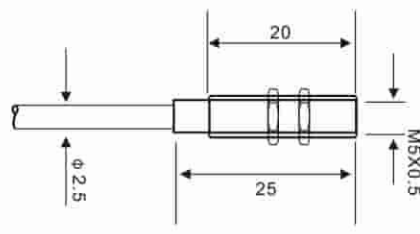
① Sensing distance, range ±10%. ② Response frequency is an average value. Measure condition is as follow: standard sensing object, a setting distance of half the sensing distance. ③ The model of -s is circuit board split type

Dimension Diagram

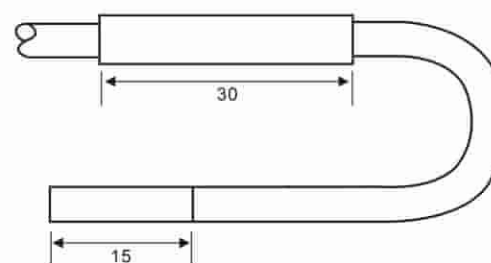
Unit: mm



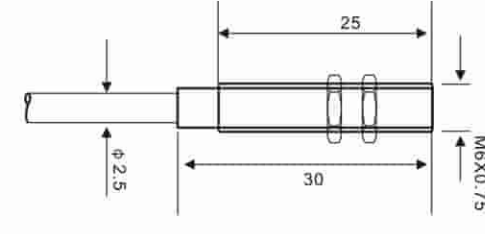
IM04 Series



IM05 Series



IM05-S Series



IM06 Series

Wiring Diagram

