

IM Series Small Diameter Cylindrical Proximity Switch

Milbo



- Features
- Easy for connection, installation and application
- High response frequency
- Stable and reliable
- Flexible cable
- Degree of protection: IP67
- Ambient temperature: -25~+70°C

IM	04	-	R8	NA	F
Series IM Series	Size 04:M4 05:M5 06:M6		Sensing Distance R8:0.8mm 0.1:1mm	Output Mode NA:NPN NO NB:NPN NC PA:PNP NO PB:PNP NC	Shielding F:Shielded

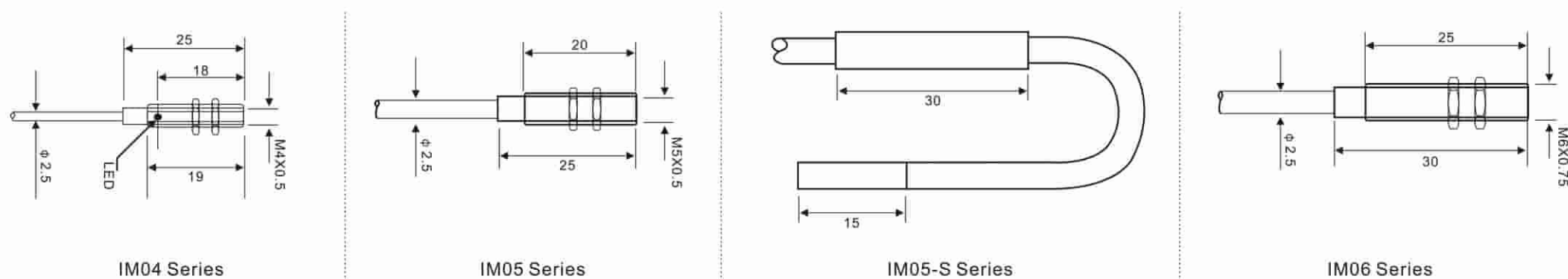
Model				
NPN NO	IM04-R8NAF	IM05-01NAF	IM05-01NAF-S ^③	IM06-01NAF
NPN NC	IM04-R8NBF	IM05-01NBF	IM05-01NBF-S	IM06-01NBF
PNP NO	IM04-R8PAF	IM05-01PAF	IM05-01PAF-S	IM06-01PAF
PNP NC	IM04-R8PBF	IM05-01PBF	IM05-01PBF-S	IM06-01PBF

Specification				
Sensing Distance ^①	0.8mm	1mm	1mm	1mm
Set Distance	0~0.64mm	0~0.8mm	0~0.8mm	0~0.8mm
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	2KHz			
Response Time	0.1ms			
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. @150mA 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℃ (with no icing or condensation)			
Ambient Humidity Range	Operating / storage: 35-95% (with no condensation)			
Temperature Influence	±10% Max. of sensing distance @+25℃ 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 ?

Dimension Diagram

Unit: mm



Wiring Diagram

