

IS Series Small Diameter Cylindrical Proximity Switch

Milbbo



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

IS	04	-	R8	NA	F
Series IS Series	Size 03: Φ3 05: Φ4 06: Φ6.5		Sensing Distance R8: 0.8mm 01: 1mm 02: 2mm	Output Mode NA: NPN NO NB: NPN NC PA: PNP NO PB: PNP NC	Shielding F: Shielded N: Unshielded

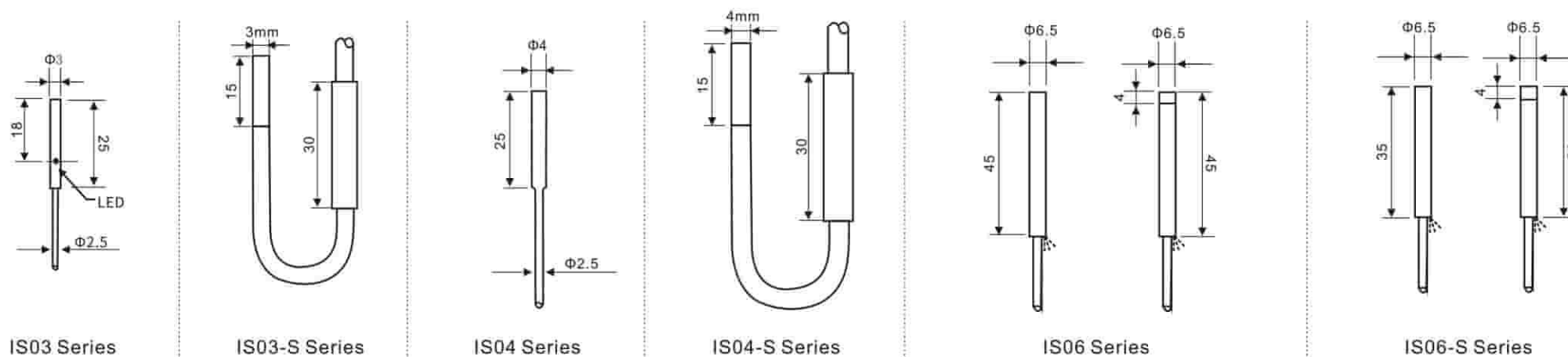
Model								
NPN NO	IS03-R8NAF	IS03-R8NAF-S ^③	IS04-01NAF	IS04-01NAF-S	IS06-01NAF	IS06-02NAF	IS06-01NAF-S	IS06-02NAF-S
NPN NC	IS03-R8NBF	IS03-R8NBF-S	IS04-01NBF	IS04-01NBF-S	IS06-01NBF	IS06-02NBF	IS06-01NBF-S	IS06-02NBF-S
PNP NO	IS03-R8PAF	IS03-R8PAF-S	IS04-01PAF	IS04-01PAF-S	IS06-01PAF	IS06-02PAF	IS06-01PAF-S	IS06-02PAF-S
PNP NC	IS03-R8PBF	IS03-R8PBF-S	IS04-01PBF	IS04-01PBF-S	IS06-01PBF	IS06-02PBF	IS06-01PBF-S	IS06-02PBF-S

Specification								
Sensing Distance ^①	0.8mm		1mm		1mm	2mm	1mm	2mm
Set Distance	0~0.64mm		0~0.8mm		0~0.8mm	0~1.6mm	0~0.8mm	0~1.6mm
Standard Sensing Object	3×3×1mm Ferrous metal		4×4×1mm Ferrous metal		6.5×6.5×1mm Ferrous metal	12×12×1mm Ferrous metal	6.5×6.5×1mm Ferrous metal	12×12×1mm 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℃ (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	~15g	~20g	~20g	~20g	~20g	~23g	~23g
Materials of Case	Stainless Steel							
Materials of Sensing Surface	PA66				PBT			
Accessories	—							

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 -s for the short circuit board separation shape

Dimension Diagram

Unit: mm



Wiring Diagram

