

IYD Series Long Distance Cylindrical Proximity Switch

Milbbo



- Features
- Easy for connection, installation and application
- High response frequency
- Protections: Overload/Short circuit
- Flexible cable
- Degree of protection: IP67
- Ambient temperature: -25~+70°C

IYD	18	-	04	NA	F
Series	Size		Sensing Distance	Output Mode	Shielding
IYD Series	08:M08		02:2mm	NA:NPN NO	F:Shielded
	12:M12		03:3mm	NB:NPN NC	N:Unshielded
	18:M18		04:4mm	PA:PNP NO	
	30:M30		06:6mm	PB:PNP NC	
			08:8mm		
			12:12mm		
			16:16mm		
			22:22mm		
			25:25mm		
			40:40mm		

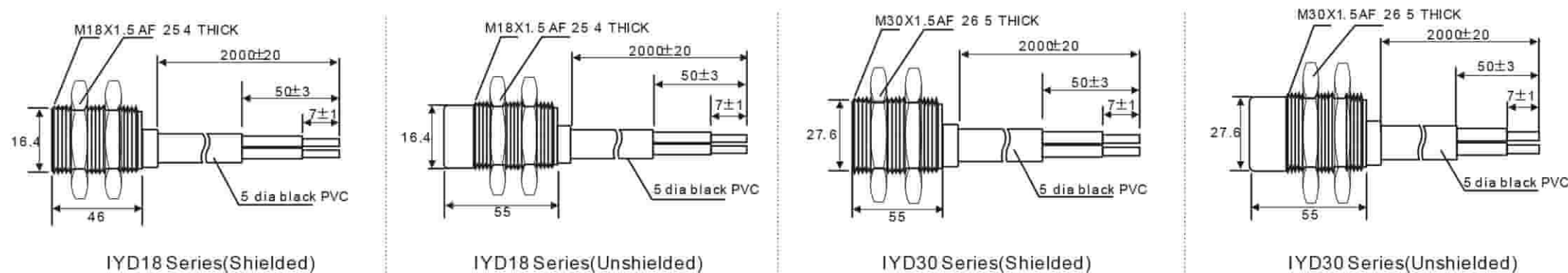
Model								
NPN NO	IYD18-08NAF	IYD18-12NAF	IYD18-12NAN	IYD18-16NAN	IYD30-16NAF	IYD30-22NAF	IYD30-25NAN	IYD30-40NAN
NPN NC	IYD18-08NBF	IYD18-12NBF	IYD18-12NBN	IYD18-16NBN	IYD30-16NBF	IYD30-22NBF	IYD30-25NBN	IYD30-40NBN
PNP NO	IYD18-08PAF	IYD18-12PAF	IYD18-12PAN	IYD18-16PAN	IYD30-16PAF	IYD30-22PAF	IYD30-25PAN	IYD30-40PAN
PNP NC	IYD18-08PBF	IYD18-12PBF	IYD18-12PBN	IYD18-16PBN	IYD30-16PBF	IYD30-22PBF	IYD30-25PBN	IYD30-40PBN

Specification								
Sensing Distance ①	8mm	12mm	12mm	16mm	16mm	22mm	25mm	40mm
Set Distance	0~6.4mm	0~9.6mm	0~9.6mm	0~12.8mm	0~12.8mm	0~17.6mm	0~20mm	0~32mm
Standard Sensing Object	18×18×1mm Ferrous metal		18×18×1mm Ferrous metal		30×30×1mm Ferrous metal		30×30×1mm Ferrous metal	
Response Frequency ②	500Hz	500Hz	500Hz	500Hz	150Hz	150Hz	100Hz	100Hz
Response Time	2ms	2ms	2ms	2ms	6.7ms	6.7ms	10ms	10ms
Differential Travel	10% 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	Max.5mA@NPN; Max.7mA@PNP							
Load Current	Max.100mA							
Residual Voltage	Max.1.5V							
Leakage Current	0.01mA Max. when 24VDC							
Indicators	Red(NPN), Orange(PNP)							
Operation Mode	NA-Model: NPN NO, NB-Model: NPN NC. PA-Model: PNP NO, PB-Model: PNP NC							
Short Circuit Protection	20mA Max.(30VDC Max.)							
Protection Circuit	Reverse Polarity protection, Surge suppressor							
Ambient Temperature Range	Operating / storage: -30~+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	10-55Hz 1.5mm double amplitude for 2 hours each in X,Y,Z directions / 500m/S ² 10 times each in X, Y and Z directions							
Degree of Protection	IEC standards IP67, in-house standards: oil-resistance							
Connection Method	Pre-wired 2m (customized cable length available)							
Materials of Case	Nickel-plated brass							
Materials of Sensing Surface	PBT							
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 Recommended app&cation within the setting distance as to reach the best detect effect.

Dimension Diagram

Unit: mm



Wiring Diagram

