



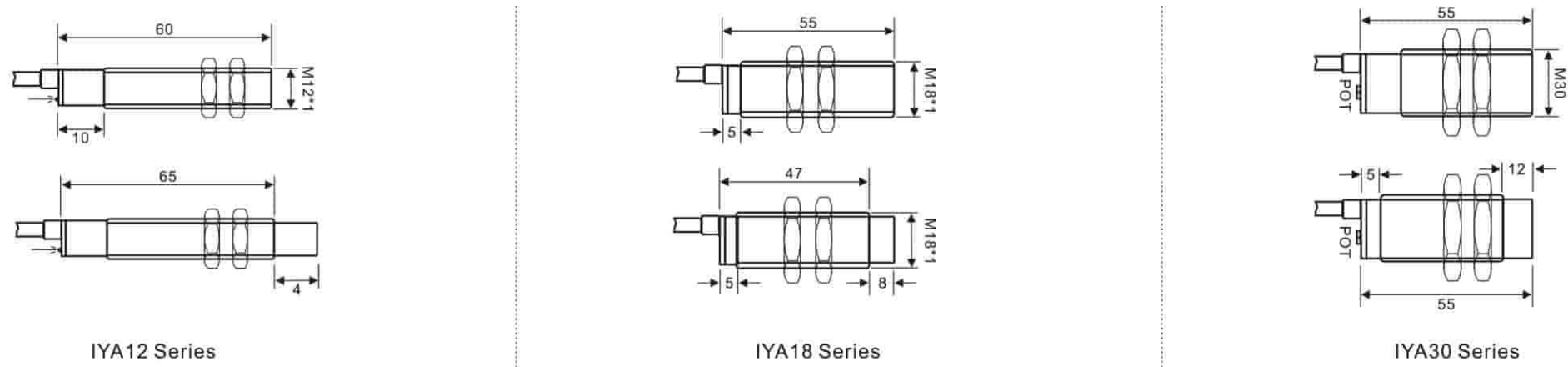
- Features
- Easy for connection, installation and application
 - Wide input range: 25~250VAC
 - Overload Protection
 - Flexible cable
 - Degree of protection: IP67
 - Ambient temperature: -25~+70°C

IYA	12	-	04	A	N
Series IYA Series	Size 08: M08 12: M12 18: M18 30: M30		Sensing Distance 02: 2mm 04: 4mm 08: 8mm	Output Mode A: NO B: NC	Shielding F: Shielded N: Unshielded

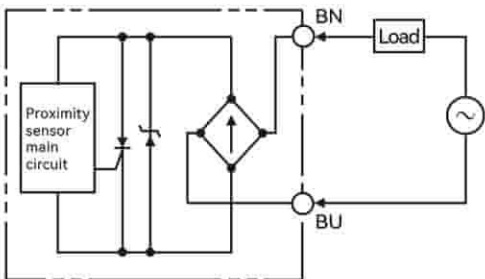
Model						
NPN NO	IYA12-02AF	IYA12-04AN	IYA18-05AF	IYA18-08AN	IYA30-10AF	IYA30-15AN
NPN NC	IYA12-02BF	IYA12-04BN	IYA18-05BF	IYA18-08BN	IYA30-10BF	IYA30-15BN
Specification						
Sensing Distance ^①	2mm	4mm	4mm	8mm	10mm	15mm
Set Distance	0~1.6mm	0~3.2mm	0~3.2mm	0~6.4mm	0~8mm	0~12mm
Standard Sensing Object	12×12×1mm Ferrous metal		18×18×1mm Ferrous metal		30×30×1mm Ferrous metal	
Response Frequency ^②	<25Hz					
Response Time	10ms					
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)	25~250VAC 50/60Hz (25~250VAC)					
Current Consumption	1.8mA Max. @250VAC					
Load Current	Max.400mA					
Residual Voltage	8VAC Max. @400mA load and 2M cable					
Leakage Current	1.8mA Max. @ 250VAC					
Indicators	Red					
Operation Mode	A-Model: NO, B-Model: NC.					
Short Circuit Protection	Yes					
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)	~65g	~70g	~110g	~120g	~200g	~210g
Materials of Case	Nickel-plated brass					
Materials of Sensing Surface	PBT					
Accessories	Clamping nuts. Mounting bracket available(optional)					

① Sensing distance, range ±10%. ② About the voltage waveform: please choose the sine waveform of the power supply, the rectangular wave of the power supply will lead to poor reset.

Dimension Diagram Unit: mm



Wiring Diagram



Note: Both the L-side and N-side can be connected to the load