

IYAD Series AC 2-Wire Long Distance Cylindrical Proximity Switch



- Features
- Easy for connection, installation and application
- Wide input range: 25~250VAC
- Super long sensing distance
- Overload/ Surge suppressor
- Flexible cable
- Degree of protection: IP67
- Ambient temperature: -25~+70°C

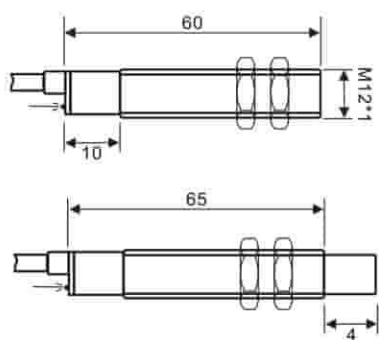
IYAD	12	-	08	A	N
Series IYAD Series	Size 08:M08 12:M12 18:M18		Sensing Distance 02:2mm 04:4mm 08:8mm	Output Mode A:NO B:NC	Shielding F:Shielded N:Unshielded

Model						
NPN NO	IYAD12-04AF	IYAD12-08AN	IYAD18-08AF	IYAD18-16AN	IYAD30-16AF	IYAD30-25AN
NPN NC	IYAD12-04BF	IYAD12-08BN	IYAD18-08BF	IYAD18-16BN	IYAD30-16BF	IYAD30-25BN
Specification						
Sensing Distance ^①	4mm	8mm	8mm	16mm	16mm	25mm
Set Distance	0~3.2mm	0~6.4mm	0~6.4mm	0~12.8mm	0~12.8mm	0~20mm
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)					

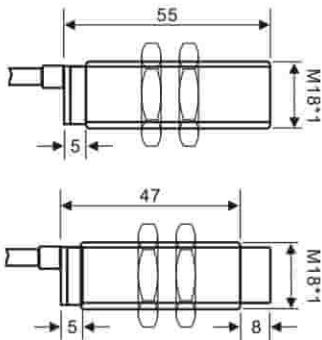
① Sensing distance, range ±10%. ② About the voltage waveform: please choose the sine waveform of the power supply, the rectangular wave of the power supply will lead to poor reset.

Dimension Diagram

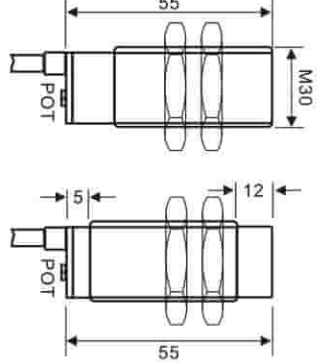
Unit: mm



IYAD12 Series

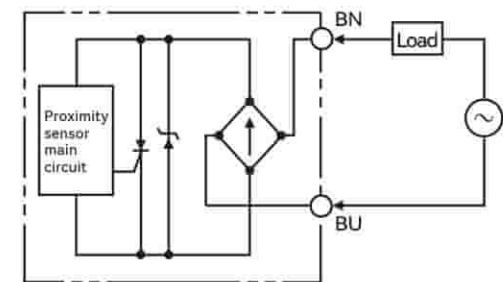


IYAD18 Series



IYAD30 Series

Wiring Diagram



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