



- Features
- Stable & reliable detection
 - Sensing distance adjustable
 - Protections: Overload/ Short circuit
 - Flexible cable
 - Degree of protection: IP67
 - Ambient temperature: -25~+70°C

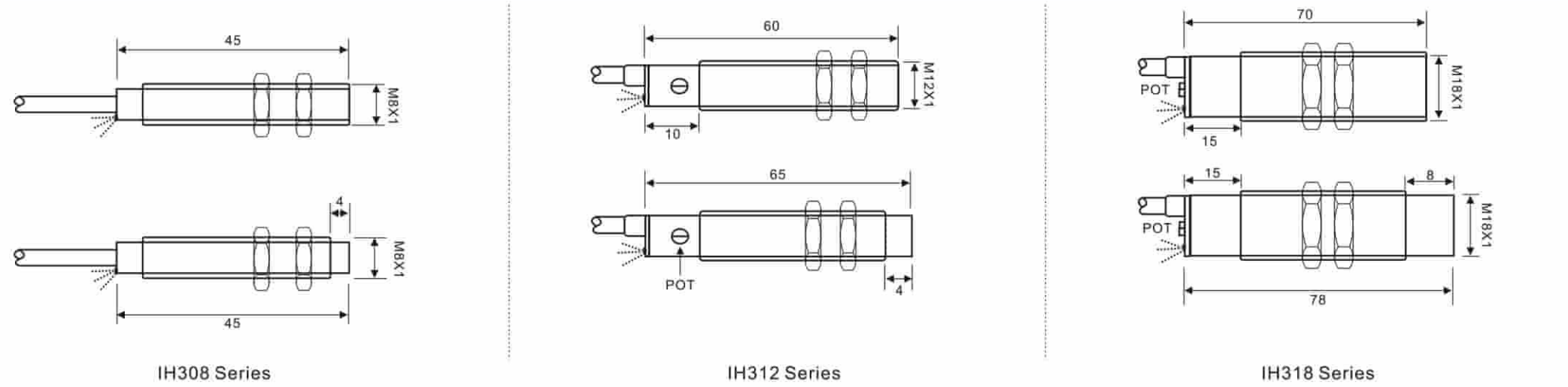
IH3	12	-	04	NA	N
Series	Size		Sensing Distance	Output Mode	Shielding
IH3 Series	12:M12 18:M18 30:M30		02:2mm 04:4mm 08:8mm	NA:NPN NO NB:NPN NC PA:PNP NO PB:PNP NC	F:Shielded N:Unshielded

Model						
NPN NO	IH308-01NAF	IH308-02NAN	IH312-02NAF	IH312-04NAN	IH318-05NAF	IH318-08NAN
NPN NC	IH308-01NBF	IH308-02NBN	IH312-02NBF	IH312-04NBN	IH318-05NBF	IH318-08NBN
PNP NO	IH308-01PAF	IH308-02PAN	IH312-02PAF	IH312-04PAN	IH318-05PAF	IH318-08PAN
PNP NC	IH308-01PBF	IH308-02PBN	IH312-02PBF	IH312-04PBN	IH318-05PBF	IH318-08PBN

Specification						
Sensing Distance ①	1mm	2mm	2mm	4mm	5mm	8mm
Adjustment range of Sensing Distance	—	—	1~2mm	1~4mm	1~5mm	1~8mm
Standard Sensing Object	Metal plate with earthing50×50×1mm					
Response Frequency ②	50Hz					
Response Time	1.5ms					
Differential Travel	15% Max. of sensing distance					
Detectable Object	Conductor & Electric medium					
Power Supply Voltage (Operating Voltage Range)	12-24VDC, Ripple (p-p) 10% Max. (full wave rectifier power supply 10-30VDC)					
Current consumption	5mA Max. @NPN. 7mA Max. @PNP					
Load Current	150mA Max					
Residual Voltage	1.5V Max. (@150mA load, 2M cable)					
Leakage Current	0.01mA Max. @24VDC					
Indicators	Red					
Operation Mode	A-Model: NO. B-Model: NC					
Short Circuit Protection	≥180A					
Protection Circuit	Overload/Short circuit protection.					
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)	~50g	~50g	~70g	~70g	~110g	~120g
Materials of Case	Nickel-plated Brass					
Materials of Sensing Surface	PBT					
Accessories	Clamping nuts. Mounting bracket available(optional)					

① The data or sensing distance is based on the standard object. Other object please refer to "Relative dielectric constant"
② Response frequency is an average of value. The measure condition is as follow: standard object and the setting distance of half sensing distance.

Dimension Diagram Unit: mm



Wiring Diagram

