

IH4 Series Long Distance Plastic Capacitive Proximity Switch

Milboo



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

IH4	12	-	03	NA	N
Series IH4 Series	Size 12:M12 18:M18 30:M30		Sensing Distance 03:3mm 06:6mm 08:8mm	Output Mode NA:NPN NO NB:NPN NC PA:PNP NO PB:PNP NC	Shielding F:Shielded N:Unshielded

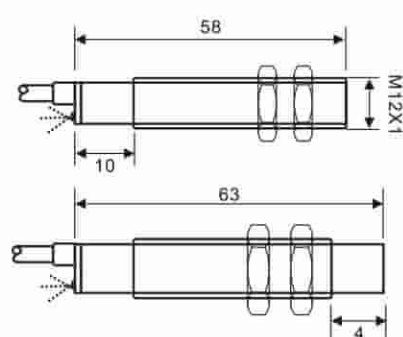
Model						
NPN NO	IH412-03NAF	IH412-06NAN	IH418-08NAF	IH418-15NAN	IH430-20NAF	IH430-30NAN
NPN NC	IH412-03NBF	IH412-06NBN	IH418-08NBF	IH418-15NBN	IH430-20NBF	IH430-30NBN
PNP NO	IH412-03PAF	IH412-06PAN	IH418-08PAF	IH418-15PAN	IH430-20PAF	IH430-30PAN
PNP NC	IH412-03PBF	IH412-06PBN	IH418-08PBF	IH418-15PBN	IH430-20PBF	IH430-30PBN

Specification						
Sensing Distance ①	3mm	6mm	8mm	15mm	20mm	30mm
Adjustment range of Sensing Distance	1~3mm	1~6mm	1~8mm	1~15mm	1~20mm	1~30mm
Standard Sensing Object	Metal plate with earthing 50×50×1mm					
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, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2					
EMC	RFI>3V/M / EFT>1KV / ESD>4KV(contact)					
Degree of Protection	IEC standards EN60529:IP67					
Connection Method	Pre-wired 2M					
Weight (Packed state)	~70g	~70g	~110g	~120g	~200g	~220g
Materials of Case	ABS					
Materials of Sensing Surface	ABS					
Accessories	Clamping nuts. Mounting bracket available(optional)					

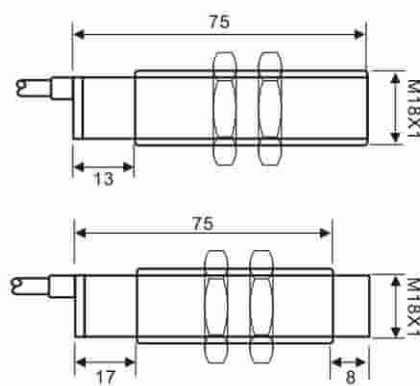
- ① The data or sensing distance is based on the standard object. Other object please refer to "Relative dielectric constant"
- ② Response frequency is an average of value. The measure condition is as follow: standard object and the setting distance of half sensing distance.

Dimension Diagram

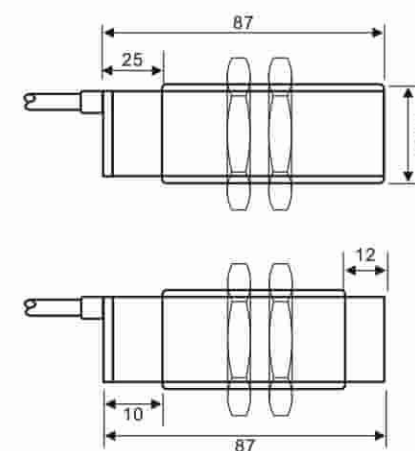
Unit: mm



IH412 Series



IH418 Series



IH430 Series

Wiring Diagram

