



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

IHV5	12	-	B	06	NA	N
Series IH3 Series	Size 12: M12 18: M18		Connector Size B: M12	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	IHV512B-03NAF	IHV512B-06NAN	IHV518B-08NAF	IHV518B-15NAN
NPN NC	IHV512B-03NBF	IHV512B-06NBN	IHV518B-08NBF	IHV518B-15NBN
PNP NO	IHV512B-03PAF	IHV512B-06PAN	IHV518B-08PAF	IHV518B-15PAN
PNP NC	IHV512B-03PBF	IHV512B-06PBN	IHV518B-08PBF	IHV518B-15PBN

Specification

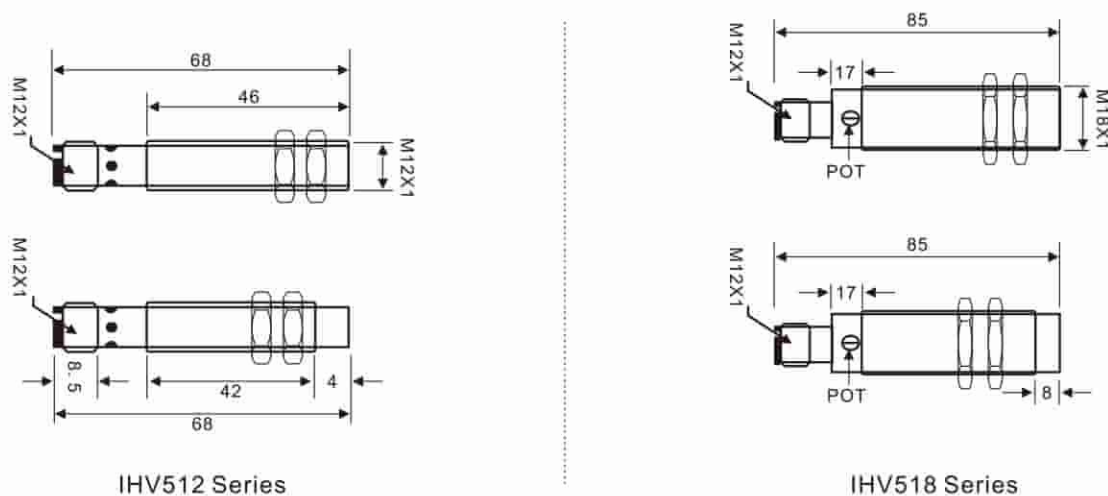
Sensing Distance ①	3mm	6mm	8mm	15mm
Adjustment range of Sensing Distance	1~3mm	1~6mm	1~8mm	1~15mm
Standard Sensing Object	Metal plate with earthing 50×50×1mm			
Response Frequency ②	50Hz			
Response Time	1.5ms			
Differential Travel	15% Max. of sensing distance			
Detectable Object	Conductor & Electric 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	Connector: M12, 4pin.			
Weight (Packed state)	~45g	~50g	~70g	~80g
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

