V₅ Group

Common inductive proximity sensors series - M30 size AC 2 wire, AC/DC 2 wire, Switching ouput

Highlights

Inductive sensor

When the metal conductive objects close to the magnetic field and reach the induction area, high-frequency alternating magnetic field generated by a LC oscillation circuit, which is composed of a coil wound on a ferrite, through the eddy current effect generated by internal of metal objects to achieve non-contact detection.

Standards

All inductive proximity sensors conform to IEC 60947-5-2.

Housing material

The housing material of sensor including nickel plated copper, also stainless steel and plastic with resistance of compression and temperature rapid change. Most of square sensor is plastic housing. These materials can also be used to produce square sensors with adjustable sensing surface or compact (small square) sensors. Such sensors can be used in the occasions of limited installation space or required large detection range.



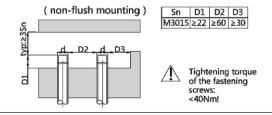
Application

Inductive proximity switch is a low cost method for non-contact detection of metal objects, which is widely used in the following sectors, such as:

- Automotive Industry
- Metallurgical sector - Machine tool sector
- Robot industry
- Conveyor system - Paper and printing industry - Mechanical Engineering
- P/N table

Sensing distance	Sn: 15mm	
2 Wire , AC, NO	VL1A-NF30-15NO-ACS2M	
2 Wire , AC, NC	VL1A-NF30-15NC-ACS2M	
2 Wire , AC/DC, NO	VL1A-NF30-15NO-AC/DCS2M	
2 Wire , AC/DC, NC	VL1A-NF30-15NC-AC/DCS2M	

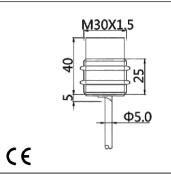
Installation



Product parameters

Features:

- Diameter M30
- Sensing distance: P/N table
- · Body material: Nickel plated brass
- Built-in electric protection
- Output: See P/N table
- PVC cable/2m; 3*0.35mm² Power supply:
- 20~250V AC; 20~250V AC/DC





Two meter angled cable (P/N: V5PN-AM12402OF) (available)

Ten meter angled cable (P/N: V5PN-AM12410OF) (available)

M12, 4 PIN, Male type, IP67, Straight, Female, Screw connection (P/N: EAM12MC4001A) (available)

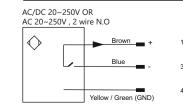
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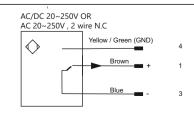
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NDUCTIVE SPECIFICATION				
	Sensing Distance	See P/N table	See P/N table	
	Correction Factor	Nav-ferrous metal Fe360 Aluminum Brass Copper Stainless Steel Cast Iron Nickel	Factor 1 0.35 ~ 0.45 0.35 ~ 0.5 0.35 ~ 0.45 0.35 ~ 0.45 0.35 ~ 0.45 0.93 ~ 1.05 0.65 ~ 0.75	
	Mounting	Non Flush type installation	ı	
	Switching Histeresis	< 10%		
ELECTRICAL DATA				
	Operating Voltage	20~250V AC ; 20~250V AC	20~250V AC ; 20~250V AC/DC	
	Switching Frequency	25Hz / 25Hz AC ; 40Hz DC	25Hz / 25Hz AC ; 40Hz DC	
	Voltage Drop	≤ 8V AC/ 10V AC; 8V DC		
	Leakage Current	≤ 1.8mA / ≤ 2.5mA		
	Load Current	Max.load:400 mA ; Min.load:5mA /		
		Max.load:200 mA ; Min.load:5mA /		
	Hysteresis	< 15% (Sr)		
	Repeatability	< 1.0% (Sr)		
	Temperature Drift	< 10% (Sr)		
	Short Circuit Protection	Yes		
	Overload Protection	Yes		
	Polarity Reversal Protection	Yes		
ENVIRONMENT DATA				
	Ambient Temperature	-2570 ℃		
	Ingress Protection	IP67		
MECHANICAL DATA				
	Housing Material	Nickel plated brass	Nickel plated brass	
	Face Material	PBT		
ELECTRICAL CONNECTION D	DATA			
	Connector	PVC cable/2m; 3*0.35mm ²	PVC cable/2m; 3*0.35mm²	

■ Input/Output circuit

ACCESORIES





Cable

Cable Connector