V₅ Group

Common inductive proximity sensors series - Q80 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

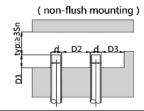
Inductive proximity switch is a low cost method for non-contact detection of metal objects, which is widely used in the following sectors, such as:

- Automotive Industry
- Metallurgical sector
- Machine tool sector
- Robot industry
- Conveyor systemPaper and printing industry
- Mechanical Engineering

 P/N table

Sensing distance	Sn: 50mm	
2 Wire , AC, NO	VL1A-NFQ80-50NO-ACLT	
2 Wire , AC, NC	VL1A-NFQ80-50NC-ACLT	
2 Wire , AC/DC, NO	VL1A-NFQ8O-50NO-AC/DCLT	
2 Wire , AC/DC, NC	VL1A-NFQ80-50NC-AC/DCLT	

■ Installation

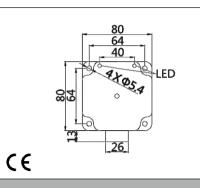


Product parameters

Features:

- Diameter Q80
- Sensing distance: P/N table
- Body material: Nickel plated brass
- Built-in electric protection
- Output: See P/N table
- Connection:
- Terminal connection up to 2.5mm
 Power supply:







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	Correction Factor Mounting	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		
	Mounting		0.93 ~ 1.05 0.65 ~ 0.75		
	The state of the s	Non Flush type installation			
	Switching Histeresis	< 10%			
ELECTRICAL DATA					
	Operating Voltage	20~250V AC ; 20~250V AC/I	DC		
	Switching Frequency	25Hz / 25Hz AC ; 40Hz DC	25Hz AC ; 40Hz DC		
	Voltage Drop	≤ 8V AC/ 10V AC; 8V DC	V 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			
	Face Material	PBT			
ELECTRICAL CONNECTION DATA					
	Connector	Terminal connection up to ; 2	2.5mm²		
ACCESORIES					
	Cable	Two meter angled cable (P/N	N: V5PN-AM12402OF) (availabl		
	Cable	Ten meter angled cable (P/N	l: V5PN-AM12410OF) (available		
	Connector	M12, 4 PIN, Male type, IP67, connection (P/N: EAM12M0			

■ Input/Output circuit

