Inductive proximity sensor

Inductive proximity sensors series - Q28 NAMUR 2 wire, DC Switching output

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

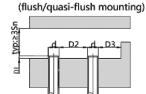
Inductive proximity switch is a low cost method for non-contact detection of metal objects, which is widely used in the following sectors, such as:

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

■ P/N table

Sensing distance	Sn: 2mm	
2 Wire , DC, NAMUR	VL1N-FQ28-2NO-DC2M	

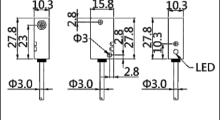
Installation



Product parameters

Features:

- Diameter Q28
- Sensing distance: P/N table
- Body material: Stainless steel Built-in electric protection
- Output: See P/N table
- Connection:
- PVC cable/2m; 2*0.25mm²
 Power supply: 6~12V DC





Yes

IP67

PBT

PBT

-25.....70 ℃



TECHNICAL INFORMATION	

	Sensing Distance	See P/N table	See P/N table	
	Correction Factor	Nav-ferrous metal Fe360 Aluminum	Factor 1 0.35 ~ 0.45	
		Brass Copper Stainless Steel	0.35 ~ 0.5 0.35 ~ 0.45 0.35 ~ 0.45	
		Cast Iron Nickel	0.93 ~ 1.05 0.65 ~ 0.75	
	Mounting	Flush type installation	Flush type installation	
	Switching Histeresis	< 10%		
ICAL DATA				
ICAL DATA	Operating Voltage	6~12V DC		
CAL DATA	Operating Voltage Switching Frequency	6~12V DC 2000Hz		
CAL DATA				
ICAL DATA	Switching Frequency	2000Hz	DN)	
RICAL DATA	Switching Frequency Voltage Drop	2000Hz ≤ 6V DC		
ICAL DATA	Switching Frequency Voltage Drop Leakage Current	2000Hz ≤ 6V DC > 2.2mA (OFF) / < 1.1mA (0	5mA /	
ICAL DATA	Switching Frequency Voltage Drop Leakage Current	2000Hz ≤ 6V DC > 2.2mA (OFF) / < 1.1mA (0 Max.load:400 mA; Min.load	5mA /	
RICAL DATA	Switching Frequency Voltage Drop Leakage Current Load Current	2000Hz ≤ 6V DC > 2.2mA (OFF) / < 1.1mA (0 Max.load:400 mA; Min.load Max.load:200 mA; Min.load	5mA /	

MECHANICAL DATA

ENVIRONMENT DATA

ELECTRICAL CONNECTION DATA	ECTRICAL CONNECTION DATA			
	Connector	PVC cable/2m ; 2*0.25mm²		
ACCESORIES				
	Cable	Two meter straight cable (P/N: V5PN-SM8302OF) (available)		
	Cable	Ten meter straight cable (P/N: V5PN-SM8310OF) (available)		
	Connector	M8, 3 PIN, Male type, IP67, Straight, Female, Screw connection (P/N: EAM8MC3001A) (available)		

Short Circuit Protection Overload Protection

Polarity Reversal Protection

Ambient Temperature

Ingress Protection

Housing Material

Face Material

■ Input/Output circuit

DC 6~12V , 2 wire N.O