

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.

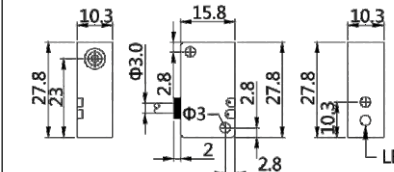
Housing material

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.

- 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



TECHNICAL INFORMATION

INDUCTIVE SPECIFICATION

	Sensing Distance	See P/N table	
	Correction Factor	Nav-ferrous metal	Factor
		Fe360	1
		Aluminum	0.35 ~ 0.45
		Brass	0.35 ~ 0.5
		Copper	0.35 ~ 0.45
Stainless Steel		0.35 ~ 0.45	
	Cast Iron	0.93 ~ 1.05	
	Nickel	0.65 ~ 0.75	
	Mounting	Flush type installation	
	Switching Histeresis	< 10%	

ELECTRICAL DATA

	Operating Voltage	6~12V DC
	Switching Frequency	2000Hz
	Voltage Drop	≤ 6V DC
	Leakage Current	> 2.2mA (OFF) / < 1.1mA (ON)
	Load Current	Max.load:400 mA ; Min.load:5mA /
		Max.load:200 mA ; Min.load:5mA /
	Hysteresis	< 15% (Sr)
	Repeatability	< 2.0% (Sr)
	Temperature Drift	< 10% (Sr)
	Short Circuit Protection	Yes
	Overload Protection	Yes
	Polarity Reversal Protection	Yes

ENVIRONMENT DATA

	Ambient Temperature	-25.....70 °C
	Ingress Protection	IP67

MECHANICAL DATA

	Housing Material	PBT
	Face Material	PBT

ELECTRICAL CONNECTION DATA

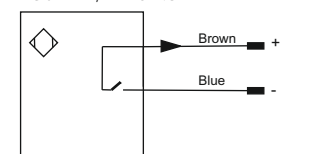
	Connector	PVC cable/2m ; 2*0.25mm ²
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ACCESORIES

	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)

- Input/Output circuit

DC 6~12V , 2 wire N.O



- 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-DCT2M		

■ Installation

(flush/quasi-flush mounting)

