Inductive proximity sensor

Compact inductive proximity sensors series - Q8 size

DC 3 wire

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.

Special miniature sensors

Many engineers are often faced with a particular requirements to fit inductive sensors into tight

The inductive sensors of the Miniature Series are fully integrated without external amplifier and our models were equipped with reverse polarity protection and short-circuit protected switching

Also an optical switching indicator is always built-in.

Benefits

- High quality sensors series
- Space-saving installation and significant flexibility in machine design thanks
- High positioning accuracy and precise switching behavior for reliable detection of fast handling and assembly processes
- Bright sensors led indicators for easy power and detection recognition
- High switching frequency
- Water proof stainless steel body design for high humidity stability IP67 degree protection

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

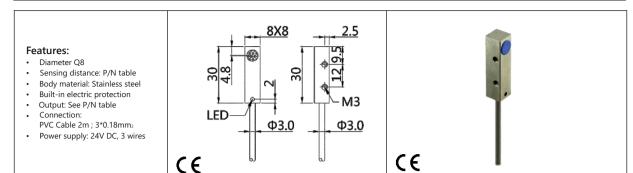
■ P/N table

Sensing distance	Sn: 2mm	Sn: 3mm
NPN , NO	VL1C-Q08N-02NO-S2M	VL1C-Q08N-03NO-S2M
NPN , NC	VL1C-Q08N-02NC-S2M	VL1C-Q08N-03NC-S2M
PNP , NO	VL1C-Q08P-02NO-S2M	VL1C-Q08P-03NO-S2M
PNP , NC	VL1C-Q08P-02NC-S2M	VL1C-Q08P-03NC-S2M

■ Installation

(flush/quasi-flush mounting)

Product parameters



INDUCTIVE SPECIFICATION		
	Sensing Distance	See P/N table
	Correction Factor	Nav-ferrous metal Factor Fe360 1 Aluminum 0.35 ~ 0.45 Brass 0.35 ~ 0.45 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	10~30V DC
	Switching Frequency	2000Hz / 1000Hz
	Voltage Drop	≤ 2.0 V
	Leakage Current	< 0.01mA
	Load Current	100 mA
	No Load Current	≤ 10 mA (24V DC)
	Hysteresis	< 15% (Sr)
	Repeatability	< 1.0% (Sr)
	Temperature Drift	< 1.0% (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 body
	Face Material	POM
ELECTRICAL CONNECTION DA	лта	
	Connection	PVC Cable 2m ; 3*0.18mm²
ACCESORIES		
	Cable	Two meter angled cable (P/N: V5PN-AM8302OF) (availab
	Cable	Ten meter angled cable (P/N: V5PN-AM8310OF) (availab
	Connector	M8, 3 PIN, Male type, IP67, Straight, Wires with screw connection (P/N: EAM8MC3001A) (available)

■ Input/Output circuit

