Inductive Proximity Sensor/Switch Datasheet

CD-E3JM Angular Column Type Relay Built-In Photoelectric Sensor

Introduction

- Photoelectric sensor is a piece of equipment used to discover the distance, absence, or presence of an object by using a light transmitter, often infrared, and a photoelectric receiver. There are three different useful types: through beam, diffused and retro-reflective.
- Through-beam type photoelectric switch is designed that via the light beam between opposite-mounted transmitter and receiver, the object passing through these two devices will interrupt the light beam and start the receiver. The detection range of this type is up to 50M from 5M.
- Diffuse reflection type photoelectric switch integrates the transmitter and the receiver. Light reflected by the photoelectric switch is reflected back to the receiver by the detected object. Normally the detection range of this type is from 10cm to 1M.
- Retro-reflective type photoelectric switch also integrates the transmitter and the receiver. Its difference from other models is that reflector is used to reflect light to the photoelectric switch. The detection range of this type is up to 2M.

Features:

- All-purpose type ,which can directly substitute the same type of P+F and OMRON
- Multiple functions ,built-in relay ,can drive high current load
- Cabling type and connection terminal type
- Long service life ,high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP67 protection structure (IEC specification)

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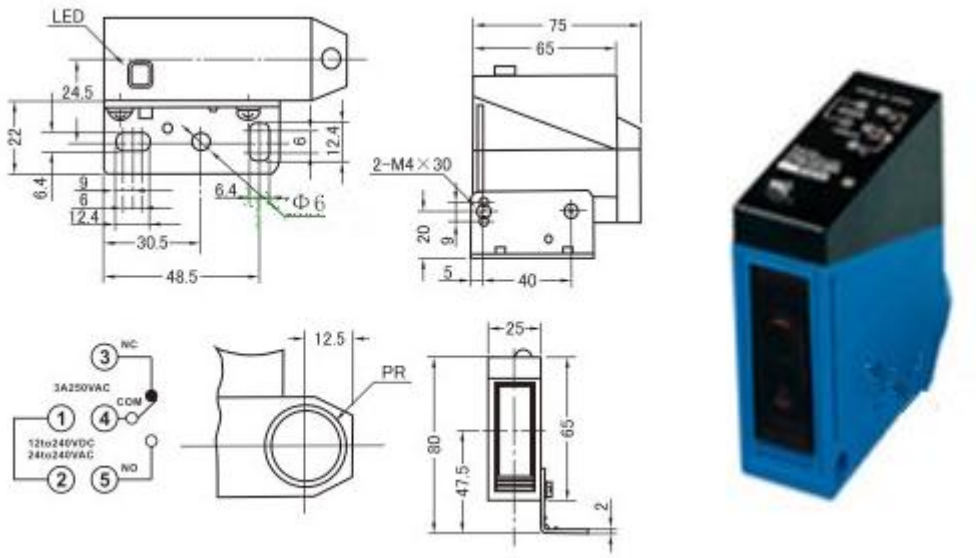
Structure Parameter:



Technical Parameter:

Dimension			25×65×75		
Detection method			Through-beam type	Diffuse reflection type	Retro-reflective type
Type	Relay output	DC NO	CD-E3JM-5D	CD-E3JM-DS70D	CD-E3JM-R4D
		AC NO	CD-E3JM-5J	CD-E3JM-DS70J	CD-E3JM-R4J
		DC AC NO	CD-E3JM-5M4	CD-E3JM-DS70M4	CD-E3JM-R4M4
Detection range			5m±10%	70cm±10%	4m±10%
Detection target			Opaque object	Transparent /Opaque object	Opaque object
Detection range regulation			Fixed	Sensitivity adjuster	Sensitivity adjuster
Supply voltage			DC type: DC10-48V AC type: AC90-250V DC AC type: DC10-48V/AC90-250V		
Response frequency			25 Hz		
Working current			5 A		
Power current			3VA below		
Control output			2A below(contact service life:0.1 million times)		
Insulation impedance			50 MΩ		
environment temperature			-20℃~70℃(248-343K)		
Connection form			2m, PVC		
Protection grade			IP65		

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