

# Inductive Proximity Sensor/Switch Datasheet

## CD-E3JK-R Angular Column Type Relay Built-In Photoelectric Sensor

### Introduction

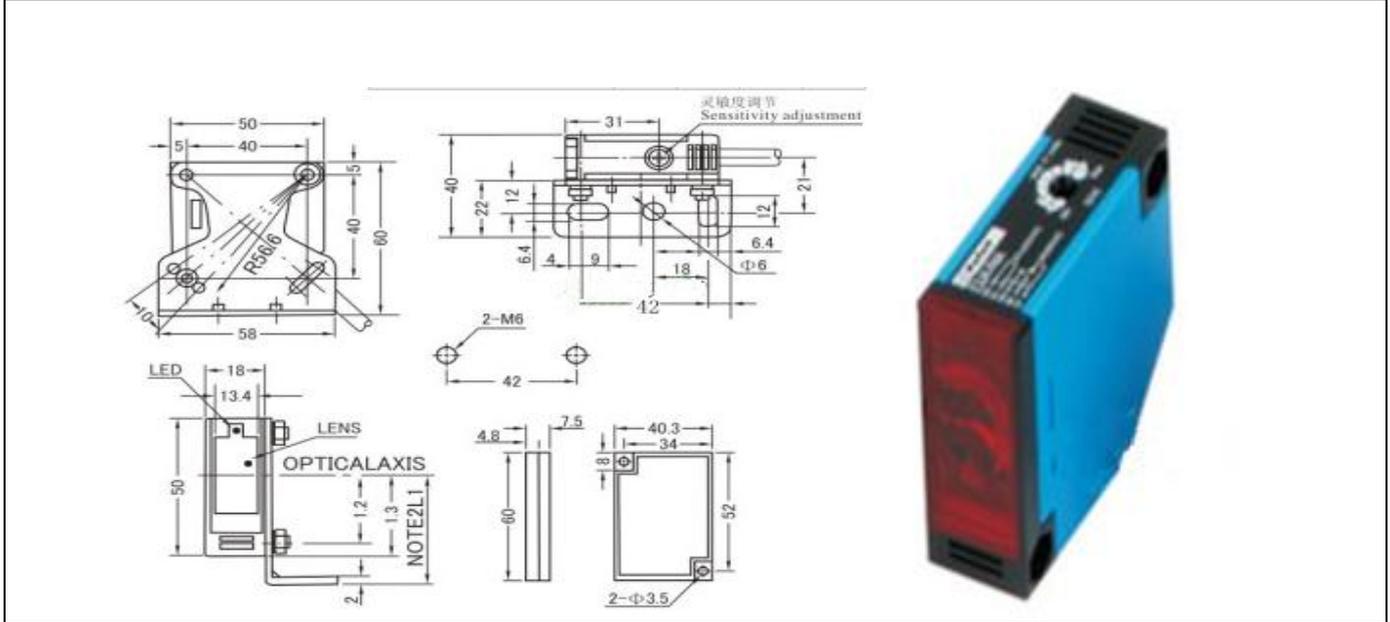
- Photoelectric sensor is a piece of equipment used to discover the distance, absence, or presence of an object by using a light transmitter, often infrared, and a photoelectric receiver. There are three different useful types: through beam, diffused and retro-reflective.
- Through-beam type photoelectric 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		18×50×50		
Detection method		Retro-reflective type		Retro-reflective type
Type	Relay output	DC NO	CD-E3JK-R2D	CD-E3JK-R4D
		AC NO	CD-E3JK-R2J	CD-E3JK-R4J
		DC AC NO	CD-E3JK-R2M1	CD-E3JK-R4M1
		DC AC NC	CD-E3JK-R2M2	CD-E3JK-R4M2
Detection range		2m±10%		4m±10%
Detection target		Opaque object		Opaque object
Detection range regulation		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		