

# Built-in Power Supply Photoelectric Sensor

## E3JK <NEW>

### Long-distance Photoelectric Sensor That Supports AC/DC Power Supplies



- Long sensing distance that is approximately 8 times that of our conventional model (for the Through-beam and Diffuse-reflective models). (Through-beam: 40 m, Retro-reflective: 7 m, and Diffuse-reflective: 2.5 m.)
- Improved visibility:
  - A red LED that makes the spot visible.
  - Large indicators that can be seen even from a distance.
- Improved operability. (Enlarged sensitivity adjuster and operation selector)
- Freely selectable power supply input (24 to 240 VDC, 24 to 240 VAC). (Additional types added to the DC type lineup.)
- Models with infrared LEDs are also available.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



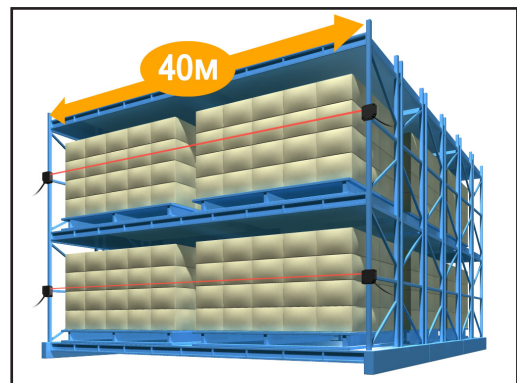
Refer to the *Safety Precautions* on page 15.

### Applications

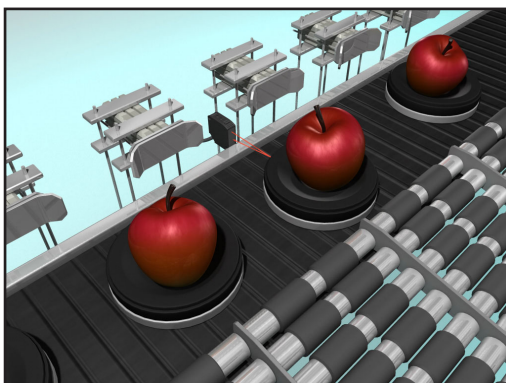
Elevator cage detection



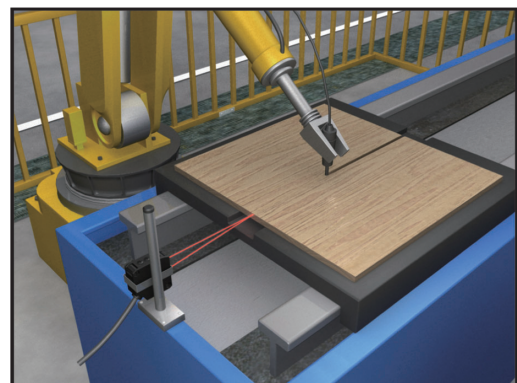
Detection of packages jutting out from their storage location



Pallet detection for agricultural produce conveyors



Workpiece detection for woodworking machines



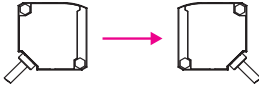




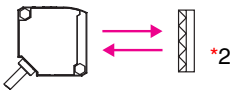




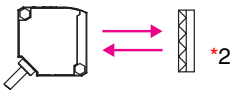


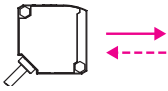

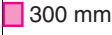

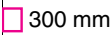
# E3JK

## Ordering Information

### Sensors

#### Sensors without Brackets or Reflectors

 Red light  Infrared light

Power supply voltage	Sensing method	Appearance	Sensing distance	Output configuration	Model		
AC/DC power supply selectable type	Through-beam *1 (Emitter + Receiver)		 40 m	Relay	<b>E3JK-TR11 2M</b> Emitter: E3JK-TR11-L 2M Receiver: E3JK-TR11-D 2M		
			 5 m		<b>E3JK-TR12 2M</b> Emitter: E3JK-TR12-L 2M Receiver: E3JK-TR12-D 2M		
			 40 m		<b>E3JK-TR13 2M</b> Emitter: E3JK-TR13-L 2M Receiver: E3JK-TR13-D 2M		
			 5 m		<b>E3JK-TR14 2M</b> Emitter: E3JK-TR14-L 2M Receiver: E3JK-TR14-D 2M		
	Retro-reflective without MSR function		 7 m [100 mm] (*3) (When using E39-R1)		Relay	<b>E3JK-RR11 2M</b>	
			 11 m [100 mm] (*3) (When using E39-R2)				
			 7 m [100 mm] (*3) (When using E39-R1)				
			 11 m [100 mm] (*3) (When using E39-R2)				
	Retro-reflective with MSR function		 6 m [100 mm] (*3) (When using E39-R1)		Relay		<b>E3JK-RR12 2M</b>
			 10 m [100 mm] (*3) (When using E39-R2)				
	Diffuse-reflective		 2.5 m		Relay		<b>E3JK-DR11 2M</b>
			 300 mm				
			 2.5 m			<b>E3JK-DR12 2M</b>	
			 300 mm			<b>E3JK-DR13 2M</b>	
							<b>E3JK-DR14 2M</b>

\*1. Through-beam Sensors are sold in sets that include both the Emitter and Receiver.

\*2. A Reflector is not included. Purchase a Reflector separately to match the intended use of the Sensor.

\*3. Values in parentheses indicate the minimum required distances between the Sensors and Reflectors.