

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.

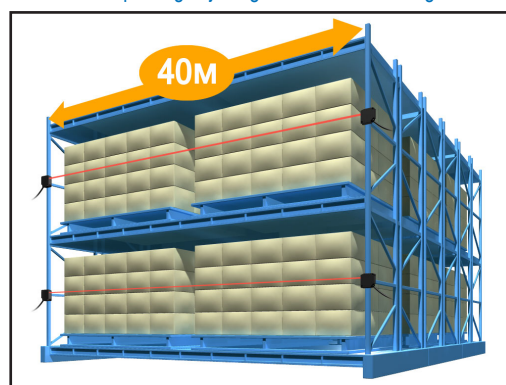
 Refer to the *Safety Precautions* on page 15.

Applications

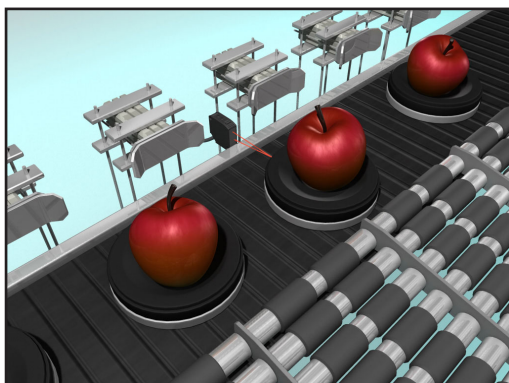
Elevator cage detection



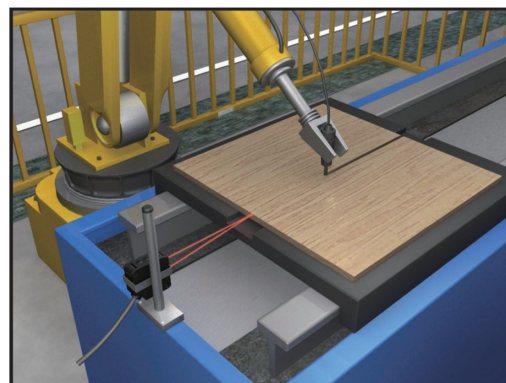
Detection of packages jutting out from their storage location



Pallet detection for agricultural produce conveyors



Workpiece detection for woodworking machines

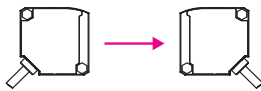
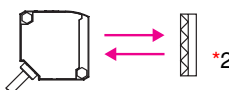
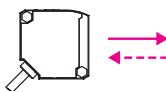


Ordering Information

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	E3JK-TR11 2M Emitter: E3JK-TR11-L 2M Receiver: E3JK-TR11-D 2M	
			 5 m		E3JK-TR12 2M Emitter: E3JK-TR12-L 2M Receiver: E3JK-TR12-D 2M	
			 40 m		E3JK-TR13 2M Emitter: E3JK-TR13-L 2M Receiver: E3JK-TR13-D 2M	
			 5 m		E3JK-TR14 2M Emitter: E3JK-TR14-L 2M Receiver: E3JK-TR14-D 2M	
	Retro-reflective without MSR function		 7 m [100 mm] (When using E39-R1)		E3JK-RR11 2M	
			 11 m [100 mm] (When using E39-R2)			
			 7 m [100 mm] (When using E39-R1)			E3JK-RR13 2M
			 11 m [100 mm] (When using E39-R2)			
	Retro-reflective with MSR function		 6 m [100 mm] (When using E39-R1)		E3JK-RR12 2M	
			 10 m [100 mm] (When using E39-R2)			
	Diffuse-reflective				 2.5 m	E3JK-DR11 2M
					 300 mm	E3JK-DR12 2M
		 2.5 m			E3JK-DR13 2M	
		 300 mm			E3JK-DR14 2M	

*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.