

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.

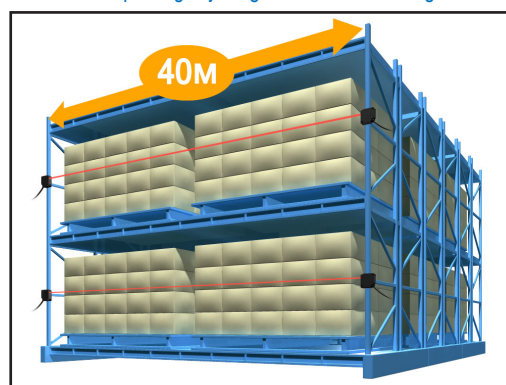
 Refer to the *Safety Precautions* on page 15.

Applications

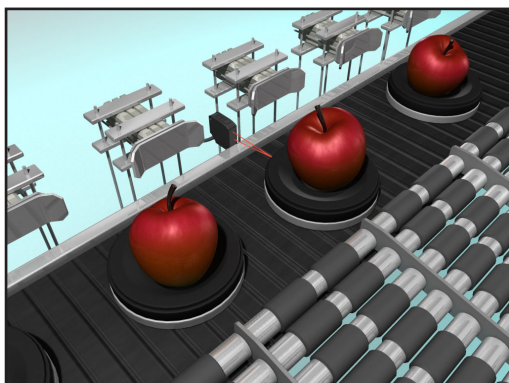
Elevator cage detection



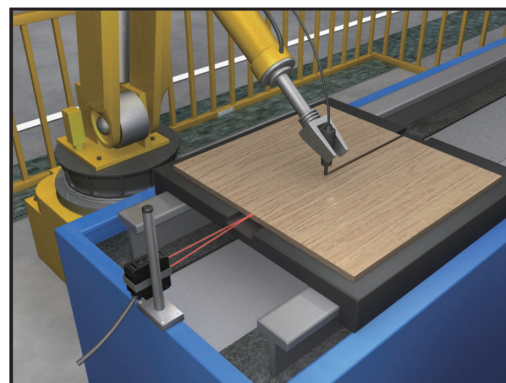
Detection of packages jutting out from their storage location



Pallet detection for agricultural produce conveyors



Workpiece detection for woodworking machines



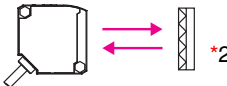
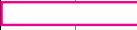
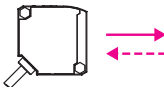
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Ordering Information

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 ^{*3} [100 mm] (When using E39-R1)		E3JK-RR11 2M	
			 11 m ^{*3} [100 mm] (When using E39-R2)			
			 7 m ^{*3} [100 mm] (When using E39-R1)			E3JK-RR13 2M
			 11 m ^{*3} [100 mm] (When using E39-R2)			
	Retro-reflective with MSR function		 6 m ^{*3} [100 mm] (When using E39-R1)		E3JK-RR12 2M	
			 10 m ^{*3} [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.