

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.)



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

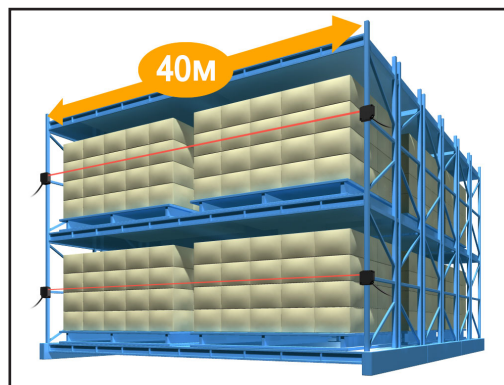
 Refer to the *Safety Precautions* on page 12.

Applications

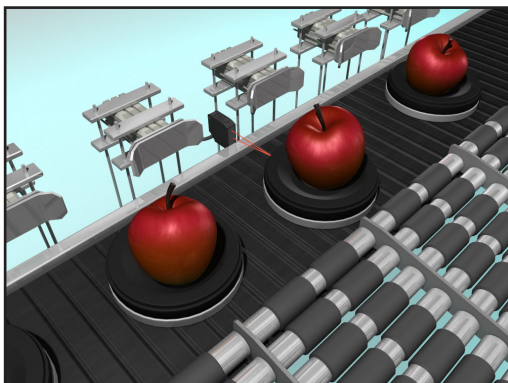
Elevator cage detection



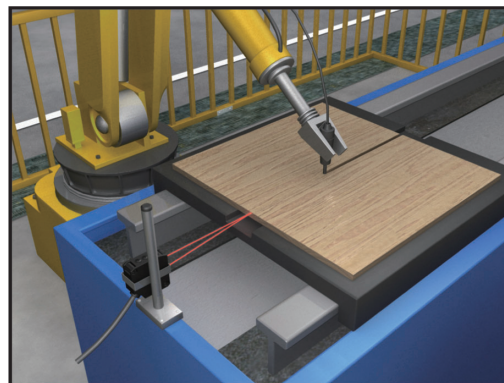
Detection of packages jutting out from their storage location



Pallet detection for agricultural produce conveyors



Workpiece detection for woodworking machines



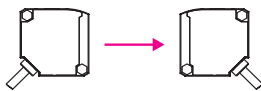
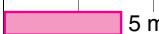
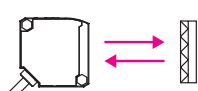
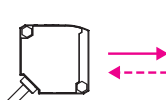
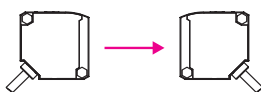
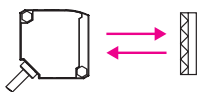
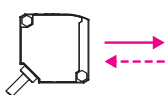
E3JK

Ordering Information

Sensors

Sensors without Brackets or Reflectors

 Red light

Power supply voltage	Sensing method	Appearance	Sensing distance	Output configuration	Model	
AC/DC power supply selectable type	Through-beam *1 (Emitter + Receiver)		 40 m  5 m	Relay	E3JK-TR11 2M	
	Retro-reflective without MSR function		 7 m *3 [100 mm] (When using E39-R1)		E3JK-TR12 2M	
			 11 m [100 mm] (When using E39-R2)		E3JK-RR11 2M	
	Retro-reflective with MSR function		 6 m *3 [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
	DC	Through-beam *1 (Emitter + Receiver)			 40 m	NPN
PNP				E3JK-TP11 2M		
 5 m				NPN	E3JK-TN12 2M	
				PNP	E3JK-TP12 2M	
Retro-reflective without MSR function			 7 m *3 [100 mm] (When using E39-R1)	NPN	E3JK-RN11 2M	
			 11 m [100 mm] (When using E39-R2)	PNP	E3JK-RP11 2M	
Retro-reflective with MSR function			 6 m *3 [100 mm] (When using E39-R1)	NPN	E3JK-RN12 2M	
			 10 m [100 mm] (When using E39-R2)	PNP	E3JK-RP12 2M	
Diffuse-reflective				 2.5 m	NPN	E3JK-DN11 2M
					PNP	E3JK-DP11 2M
				 300 mm	NPN	E3JK-DN12 2M
					PNP	E3JK-DP12 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.