

Ratings Table

Item	Model	EE-OER311、EE-OER411、EE-OER312、EE-OER412
Sensing Distance		2~5 mm (90% reflectivity white paper, 15 × 15 mm)
Minimum Detectable Object		φ0.05 mm copper wire
Non-sensing Distance		20 mm and above / Vacuum-deposited aluminum glass
Hysteresis Distance		0.2 mm (Sensing distance: 3 mm, lateral direction)
LightSource(Max.EmissionWavelength)		GaAs infrared LED (940 nm)
Indicator Lamp		Lights ON when light is received (Red)
Supply Voltage		DC 5~24 V ±10 %, ripple (p-p): 5 % max.
Current Consumption		Average: ≤15 mA, Max.: ≤50 mA
Control Output		NPN voltage outputLoad supply voltage: DC 5-24 V, Load current: ≤80 mA OFF-state current: ≤0.5 mA Residual voltage: ≤1.0 V (at load current 80 mA) Residual voltage: ≤0.4 V (at load current 10 mA)
Response Frequency		100 Hz min.
Ambient Illuminance		Incandescent lamp / Sunlight: 3,000 lx max. on receiving surface
Ambient Temperature Range		Operating: -10~+55 °C, Storage: -25~+65 °C
Ambient Humidity Range		Operating: 5~85 %RH, Storage: 5~95 %RH
Vibration (Durability)		10-50 Hz, Amplitude 1.5 mm, X/Y/Z axes, 2 h each
Shock (Durability)		500 m/s ² , X/Y/Z axes, 3 times each
Protection Structure		IEC Standard IP50
Connection Method		Connector type (Non-solderable)
Mass		Approx. 2.6 g
Material - Housing		Polycarbonate
Material - Bracket		PBT (Polybutylene Terephthalate)