

Rated Specifications

Model Item	Reflective Type	
	EE-OER302	
Detection Distance	5 mm (15×15 mm white paper with 90% reflectivity) *1	
Hysteresis Distance	0.2 mm max (at detection distance 3 mm, lateral direction)	
LightSource(PeakEmission Wavelength)	GaAs Infrared LED (940 nm)	
Indicator Lamp *2	Lights up (red) when light is received	
Power Supply Voltage	DC 5-24 V ±10%, ripple (p-p): 5% max	
Current Consumption	Average: 15 mA max, Maximum: 50 mA max	
Control Output	NPN voltage output, Load power supply DC 5-24 V, Load current: 80 mA max, Off-state current: 0.5 mA max Residual voltage: 1.0 V max (at load current 80 mA) Residual voltage: 0.4 V max (at load current 10 mA)	
Response Frequency *3	100 Hz min	
Ambient Illuminance	luminance on receiving surface: Incandescent lamp / Sunlight: 3,000 lx max each	
AmbientTemperatureRange	Operating: -10 ~ +55 °C, Storage: -25 ~ +65 °C (no icing)	
Ambient Humidity Range	Operating: 5-85%RH, Storage: 5-95%RH (no condensation)	
Vibration (Durability)	10-55 Hz, Amplitude 1.5 mm, X/Y/Z axes, 2 hours each	
Shock (Durability)	500 m/s², 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 (PC)

*1. The sensor will not operate if the object is too close.

*2. GaAs Red LED (Peak emission wavelength 700 nm)

*3. Response frequency is measured with a rotating circular disc.