

Built-in Power Supply Photoelectric Sensor

E3JM-10M4T-N

English

Print Page

Series



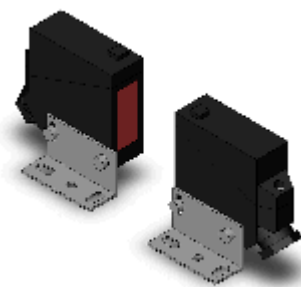
Built-in Power Supply Photoelectric Sensor
E3JM

Catalog

about this Product

Inquiry of this Product

Through-beam, Sensing distance 10m, Light-ON/Dark-ON selectable, Relay output, Terminal block models



Image

Sensing method	Through-beam
Sensing distance	0m to 10m
Light source	Infrared LED
Control output (Output type)	Relay output
Connection method	Terminal block models

Item list of E3JM

Ratings/Performance

Output circuit

Parallel operating range

Setting distance

As of September 9, 2016

Sensing method	Through-beam
Sensing distance	0m to 10m
Standard sensing object	Opaque 14.8 mm dia. Min.
Directional angle	Emitter: 3 to 20 DEG Receiver: 3 to 20 DEG
Light source	Infrared LED
Power supply voltage	12 to 240 VDC -10% to 10% (ripple (p-p) 10% Max.) 24 to 240 VAC -10% to 10%
Power consumption	Emitter and Receiver: (DC) 3 W Max. Emitter and Receiver: (AC) 3W Max.
Control output (Output type)	Relay output
Control output (Load current)	0 to 3 A
Life expectancy (relay output)	Electrical: 100 thousand times or more (switching frequency 1800 times/hour) Mechanical: 50 million times or more (switching frequency 18000 times/hour)
Operation mode	Light-ON/Dark-ON selectable
Load power supply voltage	5 VDC Min. 250 VAC
Response time	30 ms Max.
Sensitivity setting	Not equipped
Timer function	ON/OFF/One-shot delay0.1s to 5s
Ambient illuminance	Incandescent lamp: 3000 lux Max.

Ambient temperature	Operating: -25 to 55°C Storage: -30 to 70°C (with no icing or condensation)
Ambient humidity	Operating: 45 to 85% Storage: 35 to 95% (with no icing or condensation)
Insulation resistance	20 MOhm Min. at 500 VDC between charged parts and the case
Dielectric strength	2000 VAC at 50/60 Hz for 1 minute between charged parts and the case
Vibration resistance	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance	500 m/s**2 for 3 times each in X, Y, and Z directions
Degree of protection	IEC60529: IP66
Connection method	Terminal block models
Indicator	Operation indicator (red), Power indicator (red)
Tightening torque	2 N · m Max. (with M4 screw)
Material (case)	ABS
Material (lens)	Methacrylate resin
Material (cover)	Polycarbonate
Material (mounting bracket)	Iron
Accessories	Instruction manual, Mounting bracket, Nut, Terminal protection cover, One set of cable connection nuts

As of September 9, 2016

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