

Proximity Photo Electric *Model:OMRON E3JK-5M2*



Features:

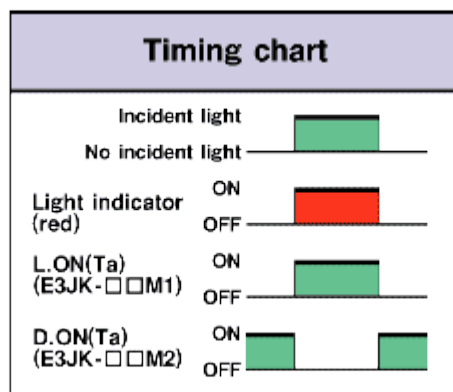
- Through Beam Type
- Pre-Wired Type
- Sensing Distance 5 m
- Dark-ON Output
- Relay Output

Specifications:

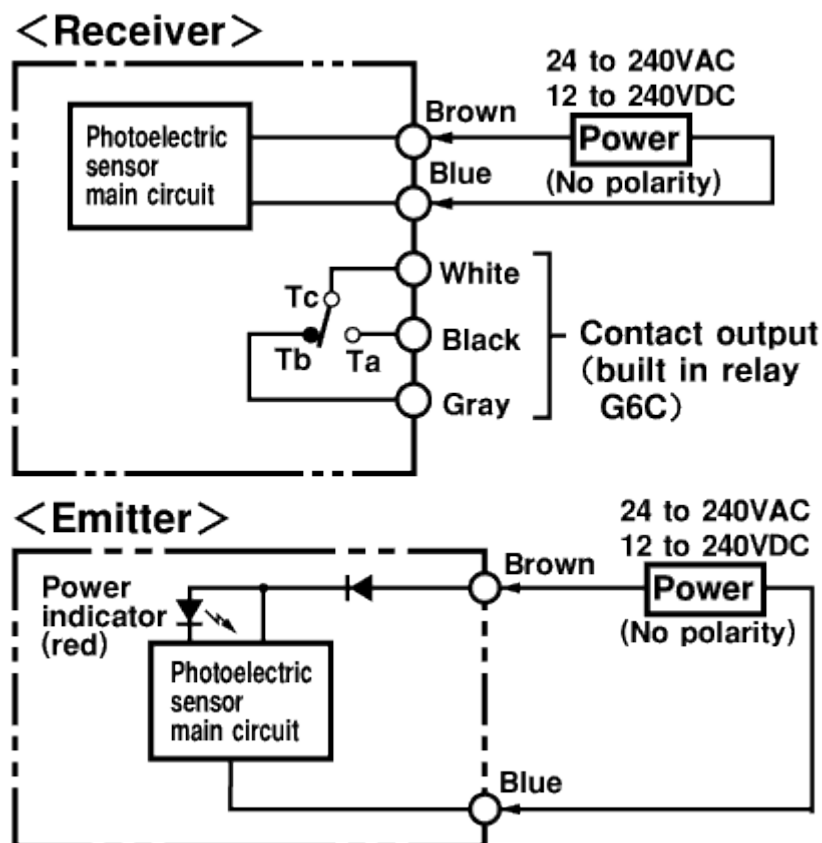
Sensing method	Through-beam
Sensing distance	0 m to 5 m
Standard sensing object	Opaque 14.8 mm dia. Min.
Directional angle	Emitter:3 to 20 DEG Receiver:3 to 20 DEG
Light source	Infrared LED (Emission wave length: 950nm)
Power supply voltage	12 to 240 VDC -10% to 10% (ripple(p-p) :10% Max.) 24 to 240 VAC -10% to 10%
Power consumption	Emitter and Receiver: 3W DC Max. Emitter and Receiver: 3W AC 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	Dark-ON
Load power supply voltage	5 VDC Min. 250 VAC Max.
Response time	30ms Max.

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%RH Storage: 35 to 95%RH (with no condensation)
Insulation resistance	20 M OHM Min. at 500 VDC between charged parts and the case
Dielectric strength	1500 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	500m/s ² for 3 times each in X, Y, and Z directions
Degree of protection	IEC60529: IP64
Applicable standard (EC Directive (Low Voltage Directive))	EN60947-5-2
Applicable standard (EC Directive (EMC))	EMI: EN60947-5-2 Emission Enclosure: EN55011 Group 1 class A EMS: EN60947-5-2 Immunity ESD: IEC61000-4-2 Immunity RF-interference: IEC61000-4-3 Immunity Burst: IEC61000-4-4
Conformed standard (EC Directive (CE marking))	Equipped
Applicable standard (CCC mark)	Equipped
Connection method	Pre-wired models (Cable length: 2 m)
Indicator	Light indicator(red), Power indicator(red)
Weight (packed state)	Approx. 420 g
Material (case)	ABS
Material (lens)	Methacrylate resin
Material (mounting bracket)	Iron
Accessories	Instruction manual, Mounting bracket(with screws), Nut

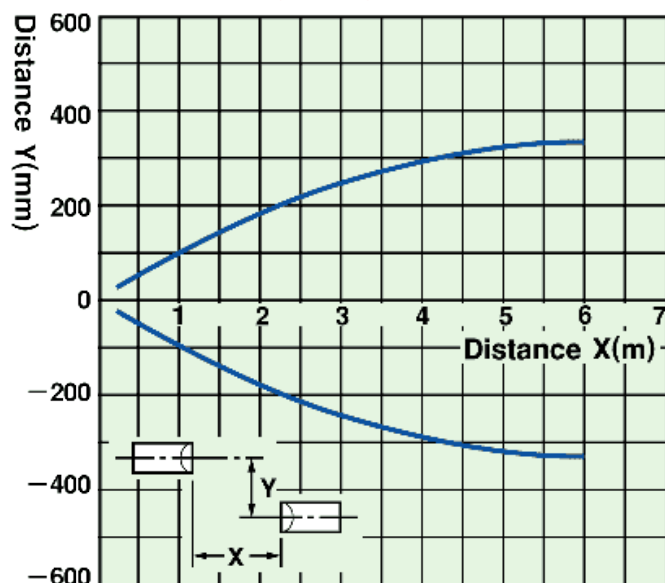
Timing Chart:



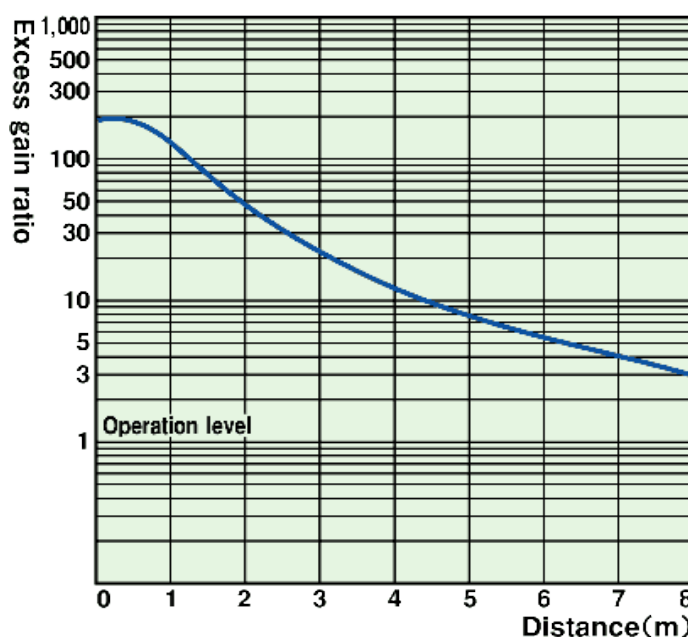
Output Circuit Diagram:



Parallel Operating Range:



Setting Distance:



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