


EQ-34-PN-J | Adjustable Range Reflective Photoelectric Sensor EQ-30

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To Be Discontinued September 30, 2024

Product Number	EQ-34-PN-J
Part Number	EQ-34-PN-J
Product	Adjustable Range Reflective Photoelectric Sensor
Details	PNP output
Product name	Adjustable Range Reflective Photoelectric Sensor EQ-30

RoHS Compliant

Substituted Adjustable Range Reflective Photoelectric Sensor EQ-500
Discontinued EQ-511
Discontinued EQ-511
Remark When using the mounting bracket, please use MS-EQ6-01.

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As of November 06, 2023
 Specifications and design of the products are subject to change without notice for the product improvement.

Spec Detail

Item	Specifications
Product Number	EQ-34-PN-J
Part Number	EQ-34-PN-J
Regulatory compliance	EMC Directive, RoHS Directive
Adjustable range	0.2 to 2 m 0.656 to 6.562 ft (Note) The adjustable range stands for the maximum sensing range which can be set with the adjuster. The sensor can detect an object 0.1 m 0.328 ft , or more, away.
Sensing range(with white non-glossy paper at setting distance 2 m 6.562 ft)	0.1 to 2 m 0.328 to 6.562 ft
Hysteresis	10 % or less of operation distance (With white non-glossy paper)
Repeatability	Along sensing axis: 10 mm 0.394 in or less, Perpendicular to sensing axis: 1 mm 0.039 in or less (with white non-glossy paper)
Supply voltage	10 to 30 V DC Ripple P-P 10 % or less
Current consumption	55 mA or less
Output	PNP open-collector transistor - Maximum source current: 100 mA - Applied voltage: 30 V DC or less (between output and + V) - Residual voltage: 1 V or less (at 100 mA source current), 0.4 V or less (at 16 mA source current)
Output.Utilization category	DC-12 or DC-13
Output.Output operation	Switchable either Detection-ON or Detection-OFF
Output.Short-circuit protection	Incorporated
Response time	2 ms or less
Operation indicator	Red LED (lights up when the output is ON)
Stability indicator	Green LED (lights up under stable light received condition or stable dark condition)
Distance adjuster	2-turn mechanical adjuster with pointer
Automatic Interference prevention function	Incorporated (Note) Detection may become unstable depending on the setting conditions or the sensing objects. After setting up this product, make sure to check operators using actual sensing objects.
Pollution degree	3 (Industrial environment)
Protection	IP67 (IEC)
Ambient temperature	-20 to +55 °C -4 to +131 °F (No dew condensation or icing allowed), Storage: -25 to +70 °C -13 to +158 °F
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance	Incandescent light: 3,000 lx or less at the light-receiving face
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	20 MΩmin. or more, with 250 V megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 55 Hz frequency, 1.5 mm 0.059 in double amplitude (10 G max.) in X, Y and Z directions for two hours each
Shock resistance	500 ms ² acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element	Infrared LED (Peak emission wavelength: 880 nm 0.035 in), modulated
Material	Enclosure: Polyvalylate and Polyethylene terephthalate Lens: Polyvalylate
Cable	0.3 mm ² 3-core cable, 2 m 6.562 ft long
Cable extension	Extension up to total 100 m 328.084 ft is possible with 0.3 mm ² , or more, cable.
Weight	Net weight: 150 g approx Gross weight: 200 g approx
Accessory	Adjusting screwdriver: 1 pc.

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Accessories (Option)

Product Number CN-24-C2	Product Number CN-24-C5	Product Number CN-24L-C2
Part Number CN-24-C2	Part Number CN-24-C5	Part Number CN-24L-C2
Product name Cable	Product name Cable	Product name Cable

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