# E2J-JC4A 2M


MADE IN JAPAN
Brown : 24VDC
Blue : 0V
Black : OUTPUT
CAPACITIVE
PROXIMITY SENSOR
E2J-JC4A
OMRON
PWR
OPN
28722K

# Product Overview

Sensor amplifier, NPN (requires E2J head)

# Specifications

## Specifications

Updated: 2026/03/28

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|---|---|
| Sensing head size | 12 mm |
| Sensing head size | 29.8 mm |
| Sensing head size | 63.1 mm |
| Type | Amplifier Unit |
| Power source | DC Three-wires models |
| Power supply voltage | 24 VDC±20% ripple (p-p) 10% max. |
| Current consumption | 30 mA max. |
| Control output (Output type) | NPN open collector |
| Control output (Switching capacity) | 100 mA max. (30 VDC max.) |
| Control output (Residual voltage) | 1 V max. |
| Indicator | Operation indicator (orange), Power indicator (green) |
| Operation mode | NO/NC selectable |
| Sensitivity setting | 8-turn adjustment |
| Protective circuit | Output short-cut protection;Power supply reverse polarity protection;Surge suppressor |
| Ambient temperature (Operating) | -10 to 55 °C |
| Ambient temperature (Storage) | -10 to 55 °C |
| Ambient humidity (Operating) | 35 to 85% |
| Ambient humidity (Storage) | 35 to 85% |
| Temperature influence | ±25% max. of sensing distance at 23 °C in the temperature range of 0 to 40 °C |
| Voltage influence | ±1% max. of sensing distance at rated voltage in the rated voltage ±20% range |
| Insulation resistance | 50 MΩ min. at 500 VDC(Between charged parts and the case) |

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| Dielectric strength | 1,000 VAC 50/60 Hz 1 min(Between charged parts and the case) |
| Vibration resistance | (Destruction) 10 to 150 Hz, 1.5 mm double amplitude or 100 $m/s^2$ each in X, Y, and Z directions for 2 h |
| Shock resistance | (Destruction) 300 $m/s^2$ 3 times each in X, Y and Z directions |
| Degree of protection | IP50(IEC) |
| Connection method | 2 m |
| Connection method | Pre-wired models |
| Weight | Approx. 60 g(Package) |
| Material | (Case) ABS |
| Accessories | Instruction manual;Mounting Bracket |
| Amplifier unit/sensor head of combination | E2J-W10MA;E2J-W20MA |

# Standards certification

## Standards certification

Updated: 2026/11/04 18:01

| | |
|---|---|
| UL | No |
| CSA | No |
| CE | Yes |
| CCC | N/A |
| Marine | No |

Yes: Certified / Conform No: Not certified / Not conform N/A: Out of Scope


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Specifications are subject to change without notice.