

**Ultra-minute Photoelectric Sensor  
EX-Z Series**

MJECK-EXZ No.0091-93V

Thank you very much for purchasing Panasonic products. Read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

- Please refer "our web site (<https://panasonic.net/id/pidsx/global>)".
- Access method is "Download" → "Manual" → "Model No.".
- If you could not visit our web site, contact our sales office near your sight.

**⚠ WARNING**

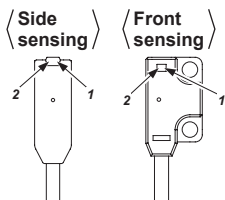
- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

**1 REGULATIONS AND STANDARDS**

- This product complies with the following standards/regulations.

<Conformity Directives / Conforming Regulations>  
 EU Law : EMC Directives 2014/30/EU  
 British Legislation : EMC Regulations 2016/1091  
 - Applicable Standards  
 EN IEC 60947-5-2

**2 PART DESCRIPTION**

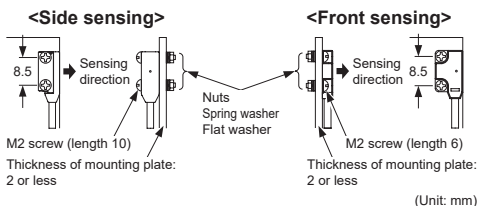


Name	Function
1 Stability indicator (Green) (Note)	Lights up under the stable light condition or the stable dark condition.
2 Operation indicator (Orange) (Note)	Lights up when the sensing output is ON.

Note: Not incorporated on the emitter.

**3 MOUNTING**

- The tightening torque should be 0.2N·m or less.
- The M2 screws, nuts, spring washers and flat washers are provided with this product.

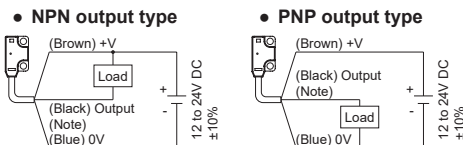


M2 screw (length 10)  
 Thickness of mounting plate:  
 2 or less

M2 screw (length 6)  
 Thickness of mounting plate:  
 2 or less

(Unit: mm)

**4 WIRING DIAGRAMS**



Note: The emitter does not incorporate the output (black).

**5 CAUTIONS**

- This product has been developed / produced for industrial use only.
- The thin cable 0.1mm<sup>2</sup> is used for this product. Note that if the cable is forcibly pulled, there is a possibility of this product being damaged, or the cable being disconnected.
- Extension up to total 50m (each emitter and receiver), or less, is possible with 0.3mm<sup>2</sup>, or more of conductor area cable.
- Make sure to carry out wiring in the power supply OFF condition.
- Take care that wrong wiring will damage the sensor.
- Verify that the supply voltage variation is within the rating.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this product, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- Take care that the sensor is not directly exposed to fluorescent lamp from a rapid-starter lamp, a high frequency lighting device or sunlight etc., as it may affect the sensing performance.
- Do not use during the initial transient time (50ms) after the power supply is switched ON.
- This sensor is suitable for indoor use only.
- Do not use this sensor in places having excessive vapor, dust, etc., or where it may come in contact with corrosive gas, etc.
- Take care that the sensor does not come in contact with oil, grease, organic solvents such as thinner, etc., strong acid, or alkaline.
- This sensor cannot be used in an environment containing inflammable or explosive gases.
- Never disassemble or modify the sensor.
- Since the cable end is not waterproof, do not use the sensor in the application where water may seep in from the cable end.

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