

GENERAL PRECAUTIONS

Wiring

- Make sure that the power supply is off while wiring.
- 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.
- Ensure that an isolation transformer is utilized for the DC power supply. If an autotransformer is utilized, the main body or power supply may be damaged.
- If the used power supply generates a surge, connect a surge absorber to the power supply to absorb the surge.
- 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.
- Make sure that stress by forcible bend or pulling is not applied directly to the sensor cable joint.

Others

- Our products have been developed / produced for industrial use only.
- Although the protection degree is specified for the sensor including the cable, the cable end is not waterproof and is not covered by the protection specified. Hence, make sure that water does not seep in from the cable end.
- Avoid dust, dirt, and steam.
- Take care that the sensor does not come in direct contact with water, oil, grease or organic solvents, such as, thinner, etc.
- Take care that the sensor is not directly exposed to fluorescent lamp from a rapid-starter lamp or a high frequency lighting device, as it may affect the sensing performance.
(Sensor by using light)
- These sensors are only for indoor use.
- Do not use in an environment containing inflammable or explosive gases. (Excluding flameproof type light curtain)
- Never disassemble or modify the product.
- The usage environment should be within the ranges described in the specifications. In addition, the thru-beam type specifications for the emitter and receiver were measured under the same environment.

Use sensors within the range shown in the white part of the ambient temperature / humidity graph below and also within the certified ambient temperature and humidity range of each product. When using sensors within the range shown in the diagonal line shaded part of the graph, there is a possibility that condensation may occur depending on changes in the ambient temperature. Please be careful not to let this happen.

Furthermore, pay attention that freezing does not occur when using below 0 °C +32 °F. Please avoid condensation and freezing when storing the product as well.

