Safety Considerations

Please read the following safety considerations before use.

1. Use the unit within the rated specifications.
2. Do not disassemble or modify the unit.
3. Do not connect, repair, or inspect the unit while connected to a power source.
4. Failure to follow this instruction may result in electric shock or fire.
5. Failure to follow this instruction may result in serious injury or substantial economic loss.

Our products are sensitive to safety considerations for the end user.

Warning

Please observe all safety considerations for safe and proper product operation to avoid hazards.

Note

1) Non-using wires must be insulated.

Specifications

- **Power Supply**: 12-24VDC
- **Contact Output**: 24-240VAC, 24-240VDC
- **Material**: Cast Aluminum
- **Protection Structure**: IP67

Dimensions

- **Panel Width**: 50mm
- **Panel Length**: 150mm
- **Panel Height**: 50mm

Connection

- **Sensing Type**: Through beam type
- **Type of Reflection**: Diffuse reflection

Mounting and Adjustment

When using photoelectric sensors closely over two units, it may result in malfunction due to mutual interference.

When installing the product, tighten the screw with a tightening torque of 1.2N.m.

- **Through-beam Type**
  - Supply the power to the photoelectric sensor, after setting the emitter and the receiver in face to face.
  - Set the receiver in center of position where indicator turns on, and adjusting the heater and the emitter right left.
  - After adjustment, check the stability of operation putting the object at the optical axis.

- **Retroreflective Type**
  - Supply the power to the photoelectric sensor, after setting the photoelectric sensor and the reflector(20cm) in face to face.
  - Set the reflector to the position which indicator turns on, as adjusting the mirror or the sensor right left.
  - Adjust and put the sensor in the same.
  - After adjustment, check the stability of operation putting the object at the optical axis.

- **Diffuse reflector type**
  - Even though the diffuse reflector type is set at max. sensitive position, sensitivity of the sensor must be adjusted according to the existence of the reflector material to background.
  - Set the target as a position to be detected by the beam, then turn the adjuster of the receiver until the indicator turns on from max. sensitive position to the point 1.
  - Take the target out of the photoelectric sensor, then turn the adjuster unit(1) which the indicator turns off, if the indicator doesn’t turn on max. sensitive position will be point 2.
  - Set the adjuster at the inside of two switching point(1). (2)

- **Caution during Use**
  - Set the receiver in center of position where indicator turns on, and adjusting the heater and the emitter right left.
  - When connecting a DC relay or other inductive load to the output, remove surge by using diodes or transistors.
  - Use the product, 0.5s after supply power is supplied.
  - When using separate power supply for the sensor and load, supply power to sensor first.
  - Do not connect the output with the power source, it may result in product damage.

The above specifications are subject to change and some models may be discontinued without notice.