DRW171448AB







Approx. 195g

Reflector (MS-2)

Approx. 200g

M4 bolt: 4. M4 nut: 4

Approx. 342g

ent screwdriver, mounting bracket, M4 bolt: 2, M4 nut: 2

Approx. 187g

Reflector (MS-2)

Approx. 208g

ent screwdriver, mounting bracket, M4 bolt; 2, M4 nut; 2

Adjustment scr

Approx. 354g

M4 bolt: 4. M4 nut: 4

Mounting and Adjustment

When using photoelectric sensors closely over two units, it may result in malfunction due to mutual 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. as adjusting the receiver and the emitter right and left. Adjust up and down direction as the same
- 4. After adjustment, check the stability of operation putting the object at the optical axis.
- %If the sensing target is translucent body or smaller than ø16mm. it might not detect the target cause light passed

Retroreflective type

- . Supply the power to the photoelectric sensor, after setting the photoelectric sensor and the reflector(MS-2) in face to face. . Set the photoelectric sensor in the position which indicator turns on, as adjusting the mirror or the sensor right and left. Adjust up and down direction as the same.
- After adjustment, check the stability of operation putting the object at the optical axis.
- % If use more than 2 photoelectric sensors in parallel, the space between them should be more than 30cm.
- ×If reflectance of target is higher than non-glossy white paper, it might cause malfunction by reflection from the target when the target is near to photoelectric sensor. Therefore put enough space between the target and photoelectric sensor or the surface of target should be installed at an angle of 30 to 45° against optical axis. (When sensing target with high reflectance near by, photoelectric sensing with the polarizing filter should be used.)
- Sensitivity adjustment: Please see the diffuse reflective type

Diffuse reflective type

- . Even though the diffuse reflective type is set at max. sensitive position, sensitivity of the sensor must be adjusted the according to the existence of the reflective material in background. . Set the target at a position to be detected by the beam, then turn the adjuster until point @ where the indicator turn on from min. position of the adjuster.
- . Take the target out of the photoelectric sensor, then turn the adjuster until point (6) which the indicator turns on if the indicator does not turn on, max. sensitive position will be point (b). . Set the adjuster at the middle of two switching point (a), (b).
- The sensing distance indicated on specification chart is against 100 ×100mm of non-glossy white paper. Be sure that it can be different by size, surface and gloss of target.

Receiv Right/Left



Sensing

target

Reflector

(MS-2)



Cautions during Use

- . Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents. . When connecting a DC relay or other inductive load to the output, remove surge by using diodes or varistors.
- 3. Use the product, 0.5 sec after supplying power. When using separate power supply for the sensor and load, supply power to sensor first.
- . 12-24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- . Wire as short as possible and keep away from high voltage lines or power lines, to prevent inductive noise.
- . When using switching mode power supply to supply the power, ground F.G. terminal and connect a condenser between 0V and F.G. terminal to remove noise
- When using sensor with the equipment which generates noise (switching regulator, inverter, servo motor, etc.), ground F.G. terminal of the equipment. 3. This unit may be used in the following environments.
- Indoors (in the environment condition rated in 'Specifications')
- ②Altitude max. 2,000m
- ③Pollution degree 2
- ④Installation category II

Major Products

- Photoelectric Sensors Temperature Controllers
- Fiber Optic Sensors Temperature/Humidity Transducers
- Door Sensors
- SSRs/Power Controllers Door Side Sensors Counters
- Area Sensors Timers
- Proximity Sensors
 Panel Meters
- Pressure Sensors Tachometers/Pulse (Rate) Meters
- Rotary Encoders Display Units
- Connector/Sockets Sensor Controllers
- Switching Mode Power Supplies Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables Stepper Motors/Drivers/Motion Controllers
- Graphic/Logic Panels Field Network Devices
- Laser Marking System (Fiber, Co₂, Nd:yag) Laser Welding/Cutting System

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HEADQUARTERS

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