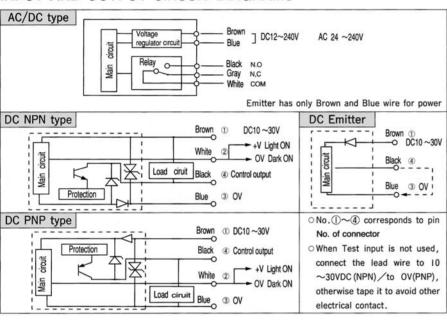


V2 series AC/DC type V2 series DC type Small BGS series Retro-reflection **BGS** Retro-reflection **BGS** Through Through (polarized filter) beam (polarized filter) Long range | Middle range | Short range Long range | Middle range | Short range Long range Short range Cable type V2T-2000 V2R-800 BGS-V80 BGS-V50 BGS-V30 V2T-2000 ₽ V2R-800 ₽ BGS-V80 B BGS-V50 B BGS-V30 B BGS-30₽ BGS-10 ₽ V2T-2000CD ₽ V2R-800CD ₽ BGS-V80CP BGS-V50CP BGS-V30CP BGS-30C ₽ BGS-10C₽ Connector type Detecting distance 20m 8m 25~80cm | 15~50cm | 10~30cm 20m 25~80cm | 15~50cm | 10~30cm 10~30cm 4~10cm Supply voltage DC12~240V±10% AC24~240V±10% 50/60Hz DC10~30V 35mA max. Current consumption 3VA max. 30mA max. 25mA max. Response time 15ms max 0.5ms max. 0.5ms max. 3ms max 2 ms max Hysteresis 20% max. 15% max. 5% max. 5% max Light source Red LED Sensitivity adjustment 2 rotation volume 2 rotation volume Indicator Light Indicator (Red) Output Indicator (Red) Light Indicator (Red) Light ON/Dark ON selectable by wiring Operation mode Light ON Relay1C DC30V 2A/AC250V 0.3A max. Control output NPN/PNP open collector DC30V 100mA max. Ambient tempe -25~55°C/35~85% RH Environmen Sun lihgt: 10000lx max. Incandescent light: 3000lx max. Protection n IP67 (IEC 144)/Case: ABS (Glass fiber included) Front cover: PC (PMMA for retro-ref. type)

INPUT AND OUTPUT CIRCUIT DIAGRAMS



Adjusting the optical axias.

- Through-beam type
- 1. Install the emitter and the receiver opposite to each other so that the optical axis lines up.
- 2. Swing the emitter and the receiver vertically and from side to side, and fix each at the midpoint in the range where the indicating lamp at the receiver lights up.
- Reflection type

Swing the sensor vertically and from side to side, an and fix it at the mid-point In the renge where the indicating lamp lights up.

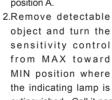
■TEST INPUT function

(Available only in DC type Emitter) When the Test input wire is connected to OV, an interrupted status is electrically invented by stoppage of emission. This function can be used as on operational check of the sensor by electric interrupted state without detectable object.

Adjusting the sensitivity control

1.Set the detectable object at the detection position and turn the sensitivity control slowly from MIN toward MAX until the indicating lamp lights up. Call it position A.

SPECIFICATIONS



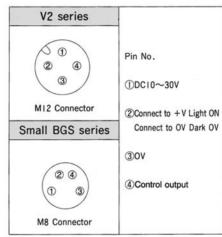
extinguished. Call it position B. 3.Point C midway between A and B is the

optimum sensitivity position.

BGS performance

BGS types give stable sensing regardless of colors on objects. Technical details is refered in the catalogue.

HOW TO USE



O Connectors are inter -changeable between horizontal and vertical mode

● Inter-change of M12 connector

Make sure to turn the connector as shown, otherwise you will damage the connctor.

O Set up the stopper to fix the connector.

Vertical→Horizontal

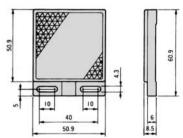
Other precautions

- OBe careful not to install the sensor at the following locations, for it may otherwise malfunction ·
- Where a lot of dust, vapor, or the like is present
- Where corrosive gases are produced
- · Where water, oil or the like flies directly onto the sensor.
- Where strong vibration or shock is caused to the sensor.
- O Do not use organic solvent, sucn as thinner, to remove contaminants from the body case, lid and lens which are all of plastics. Using a dry rag, just wipe clean.
- O When a switching regulator is to be used with a power supply, be sure to ground the frame ground terminal
- O Avoid wiring together with high voltage or motor line in order to prevent the sensor form noise.
- ODo not use the sensor in a transient state at power on. (about 150 ms)

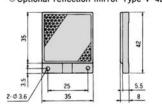
Must not use this item as safety equipment for the purpose of human body protection.

Accessories

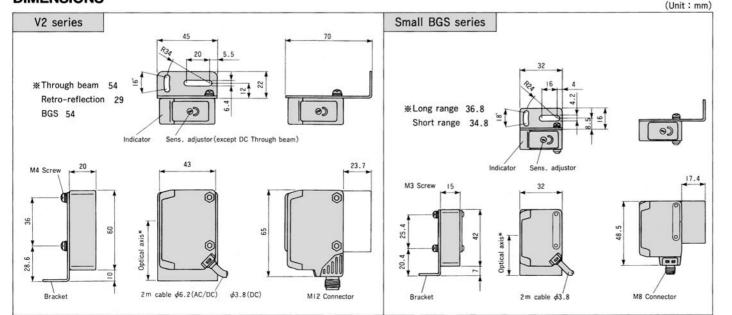
OStandard reflection mirror Type V-61 (for Retro-refrection)



Optional reflection mirror Type V-42



DIMENSIONS



- Specifications and equipment are subject to change without any obligations on the part of
- For more information, questions and comments

regarding products, please contact us below. i → http://www.optex-fa.com/rohs_cn/



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