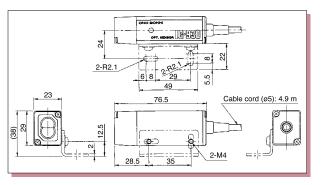
Compact model designed for the long-distance detection of visible light

The LG-930 model is a compact reflective-type photoelectric rotation detector that can be positioned up to 200 mm away from the target object.





Features

- Can be positioned at a distance of up to 200 mm away from the target measurement object
- The compact design enables it to be mounted in small spaces. Moreover, the L-shaped mounting fixture enables easy mounting.
- Visible light is used for easy positioning, and the built-in operating indicator light enables easy setup.
- The pulse lighting method ensures that the LG-930 is virtually unaffected by ambient light.

Specifications

Detection method: Photoelectric reflection of visible light

Detection distance: 70 to 200 mm (when using the 12-mm-square reflective mark)

Object detected: Reflective mark

Maximum response speed: 25 m/s (when using the 12-mm-square reflective mark, and when the distance from the point to which the mark was affixed is 48 mm)

*Ono Sokki Model HT-011 is recommended as reflective mark. Time response delay: 0.5 ms (light receiver conversion time) or less

Light source: Light-emitting diode (red visible rays)

Light receiving element: Phototransistor Power requirement: 12 VDC ±2 V

Current consumption: 85 mA or less (when using 12 V)

Output waveform: Rectangular wave Hi: +5 V ±0.5 V, Lo: Up to + 0.5 V (on condition that a

load resistance is at 100 k Ω at least.)

Output impedance: 1 k Ω or less

Operating temperature range: -10 to +60°C Storage temperature range:-20 to +80°C

Input/output connectors: Directly attached cable with the other end open

Cable length: 4.9 m Weight: Approx. 200 g

Accessory provided: Mounting fixture

Application Example

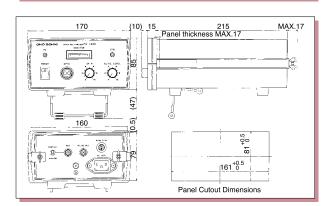
Attach the reflective mark to the shaft of the rotating object and then perform detection.

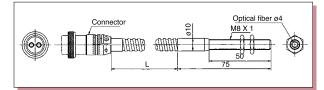
Photoelectric Rotation Detector FS-540/FG-1200

Optical Fiber Sensor/Optical Multimeter .

Combine the FS-540 Optical Fiber Sensor with the FG-1200 Optical Multimeter to enable a detection distance of up to 70 mm







Features

- · Detects the rotational speed, number of objects, position, level, and judges whether or not an object is present
- If reflective mark (Ono Sokki Model HT-011) that generates a large amount of reflected light is affixed to the target object, detection can be performed at a distance of up to 70 mm.
- Since light is used for detection, the products are virtually unaffected by
- · Detection of even ultra-small amounts of light can be performed.

Specifications

FG-1200 Optical Multimeter

Response frequency: 0 to 5 kHz

Lighting method: Light-emitting diode (near infra-red rays)

Light receiving method: Photodiode

Output signals: Analog output (proportional to the amount of reflected light): 0 to 10 V

Load resistance: At least 10 kΩ Pulse output: Hi: +5 V, Lo: Up to +0.5 V

Load resistance: At least 10 $k\Omega$ Contact output: 0.1 A (100 VAC resistance load)

Slice level: User-specifiable setting

Connection method: Connector (compatible plug: BNC) or MX-100 Series signal cable (option)

Power requirement: 100 VAC ±10% (100/120/220/240 VAC on request)

Operating temperature range: 0 to +40°C

Gap between the optical fiber sensor and the target measurement object (when the output signal is 1 V)

Target measurement object	Minimum Gain	Maximum Gain
Black matte painted surface	≒7 mm	≒ 14 mm
White paper 12 mm x 12 mm	≒8 mm	≒ 15 mm
Mirror 12 mm x 12 mm	≒ 32 mm	≒ 44 mm
Reflective mark 12 mm X 12 mm	≒ 44 mm	≑ 69 mm
(Ono Sokki Model HT-011)	7 44 111111	

FS-540 Optical Fiber Sensor Specifications

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		FS-540	FS-340 (Manufactured after receipt of order)
	Detection method	Reflective	Reflective
	Diameter of fiber tip	ø4 mm	ø4 mm
	Length of fiber (L)	1 m	1 m
	Temperature	-10 to +70°C	-10 to +250°C

TMF-80 swivel-neck model with magnetic base
The optical fiber can be extended up to a length of 10 m. (option)
Reflective mark Model HT-011 can be supplied as an option. 1 set of HT-011

includes 250 pcs. of reflective mark.