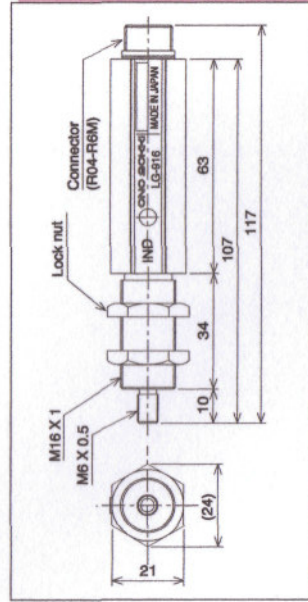
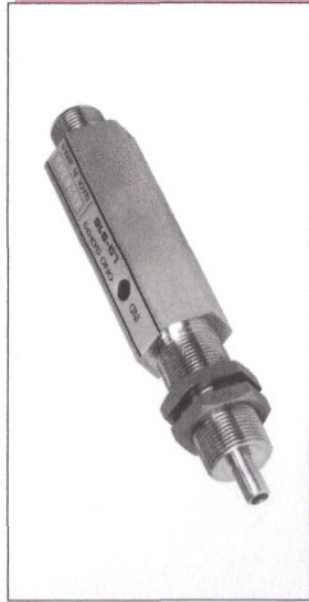


## Photoelectric Rotation Detector Compact, Optical Fiber Sensor

LG-916

The LG-916 model is a reflective-type photoelectric rotation detector that employs an optical fiber at its tip. A pulse modulation method has been used for the light projection source, and the detector has been designed to be virtually unaffected by ambient light.



### ● Features

- Detection from nearly 0 r/min
- This compact, easy-to-use photoelectric detector that features the light source, light receiver and amplification section in a unified structure is a lightweight model weighing only 150 g.
- A light-emitting diode is used for the light element.
- A waterproof connector is provided as standard.

### ● Specifications

Detection method: Light reflection using an optical fiber sensor  
 Detection distance: Up to a maximum of 20 mm when using the 12-mm-square reflective mark (Ono Sokki Model HT-Q11).

Maximum response speed: 20 m/s (conversion of the rotating shaft's circumferential speed)

Time response delay: 0.6 m/s (light receiver conversion time) or less

Light source: Light-emitting diode (infrared light)

Light receiver element: Phototransistor

Power requirement: 12 VDC  $\pm 2$  V

Current consumption: 60 mA or less (when using 12 V)

Output waveform: Rectangular wave Hi:  $\pm 5 \pm 0.5$  V, Lo: Up to  $\pm 0.5$  V

Output impedance: 1 k $\Omega$  or less

Connection method: Connector (compatible plug: R04-PB6F or MX-700/800 Series signal cable/sold separately)

Operating temperature range:

-10 to  $+60^{\circ}\text{C}$

Storage temperature range:

-20 to  $+80^{\circ}\text{C}$

Weight: 150 g

