



PROXIMITY SENSOR

COMPACT INDUCTIVE PROXIMITY SENSOR **Amplifier-separated**

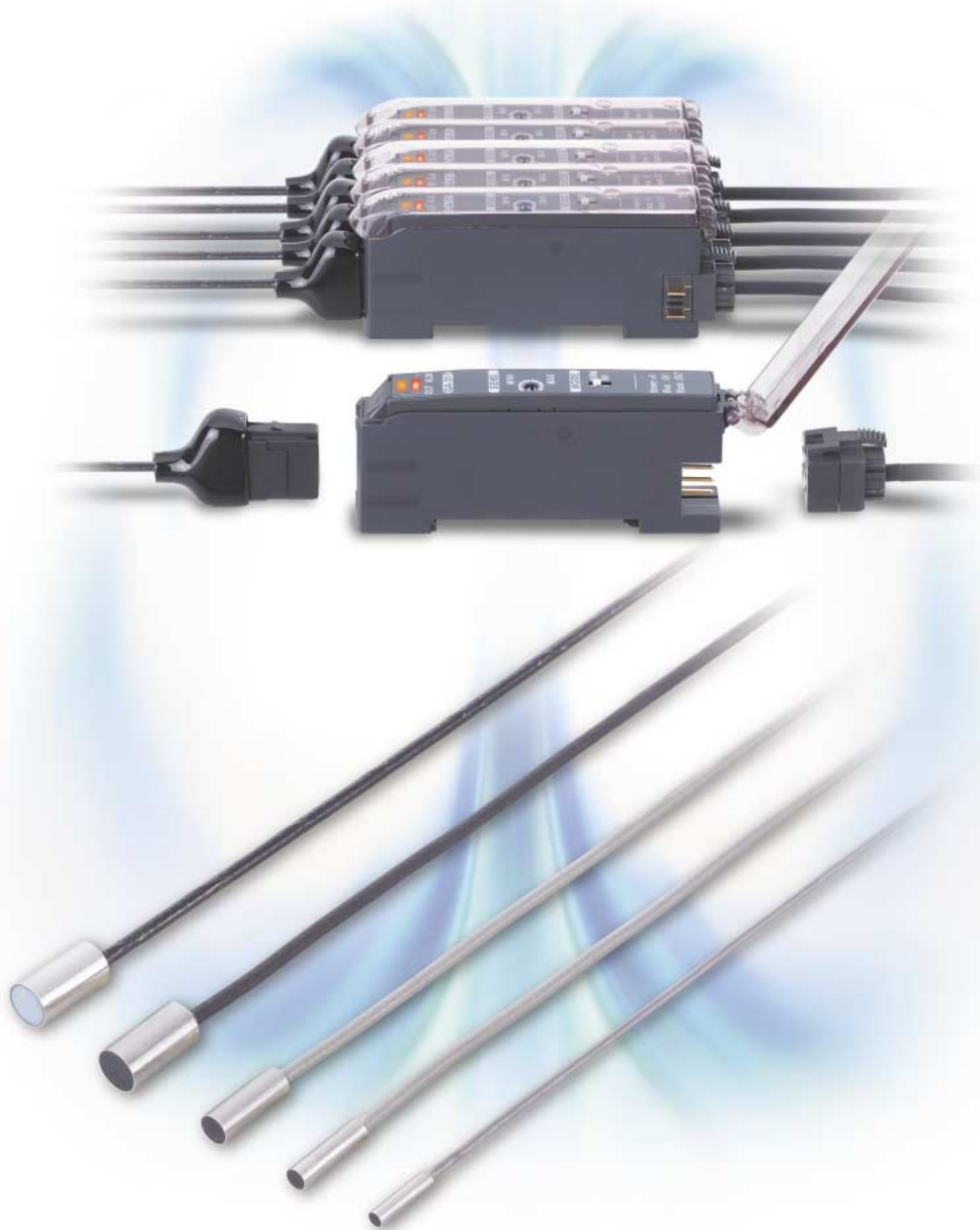
**New**

# GA-311

Applied for  
UL Recognition

## Emphasis on usability

High-speed response and one-touch connectors



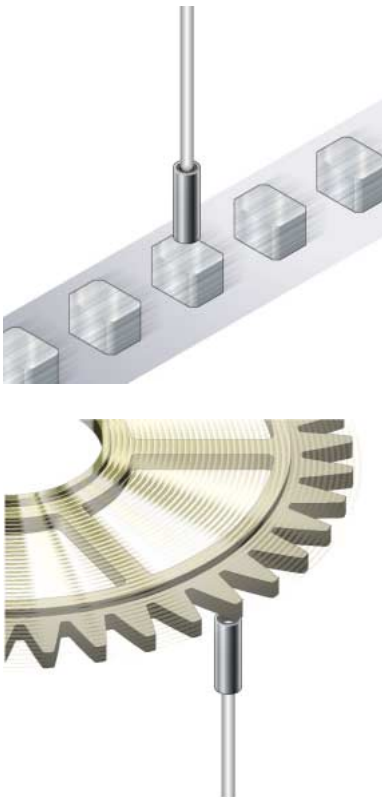
# High-speed response and excellent workability

3.3 kHz response frequency.

One-touch connectors reduce the amount of wiring for the sensor head and the connecting cable. In addition to a stylish shape, this also greatly improves usability.

## Suitable for high-speed applications


Performance matches the 3.3 kHz response frequency. These sensors are ideal for sensing objects moving at high speeds.





## IP67g (JEM) sensor head variations


The lineup includes 5 different models, from an ultra-compact 2.8 mm [0.110 in](#) diameter type to a spatter-resistant type. Furthermore, all except for the **GH-2SE** are IP67g (JEM) oil-resistant models so that they can be used with confidence even in adverse environments.




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**GH-8SE**  
Sensing range: 0 to 4.0 mm  
[0 to 0.157 in](#)  
Appearance:  $\phi$  8 mm  
 [\$\phi\$ 0.315 in](#)
- 

**GH-F8SE** Spatter-resistant  
Sensing range: 0 to 4.0 mm  
[0 to 0.157 in](#)  
Appearance:  $\phi$  8 mm  
 [\$\phi\$ 0.315 in](#)
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**GH-5SE**  
Sensing range: 0 to 2.4 mm  
[0 to 0.094 in](#)  
Appearance:  $\phi$  5.4 mm  [\$\phi\$ 0.213 in](#)
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**GH-3SE**  
Sensing range: 0 to 1.8 mm  
[0 to 0.071 in](#)  
Appearance:  $\phi$  3.8 mm  [\$\phi\$ 0.150 in](#)
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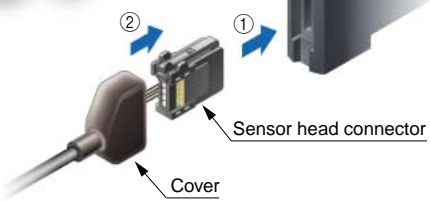
**GH-2SE**  
Sensing range: 0 to 1.2 mm  
[0 to 0.047 in](#)  
Appearance:  $\phi$  2.8 mm  
 [\$\phi\$ 0.110 in](#)



## Functions designed to enhance usability

### One-touch connections

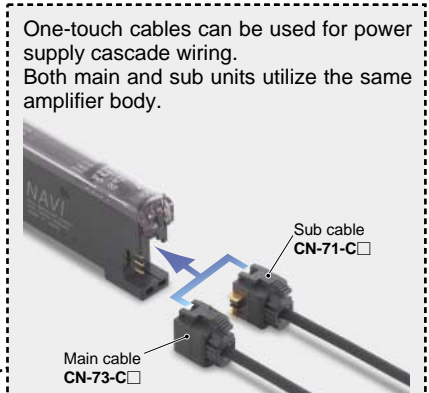
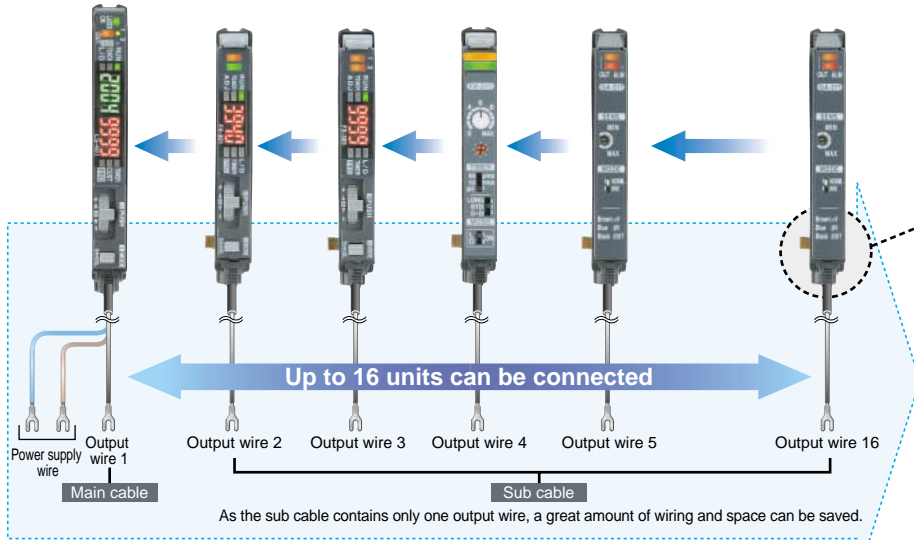
The connection between the sensor head and the amplifier is made using a one-touch connector. Past troublesome wiring connections using a screwdriver are no longer necessary.



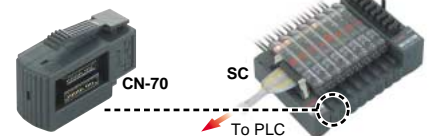
## Excellent workability and ease of maintenance

The all have the same form as the FX-300 series of fiber sensors. The one-touch cables are also of the same shape, so that fiber sensors and laser sensors can all be used together and less power supply wiring is required.

- Laser sensor  
**LS-401**
- Fiber sensor  
**FX-301**
- Fiber sensor  
**FX-305**
- Fiber sensor  
**FX-311**
- Inductive proximity sensor  
**GA-311**
- .....
- Inductive proximity sensor  
**GA-311**



Even less wiring is possible by using the CN-70 non-line connectors!



### Sensor-PLC connection system SC series

Up to 16 sensors can be connected together using a MIL connector.

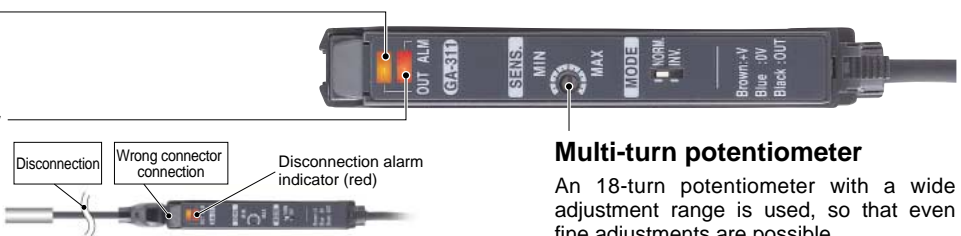
## Disconnection alarm indicator has been incorporated

### Operation indicator

Lights up orange when the output is on.

### Disconnection alarm indicator

Lights up red if a problem such as a disconnected sensor head cable or a poor connector connection occurs.



### Multi-turn potentiometer

An 18-turn potentiometer with a wide adjustment range is used, so that even fine adjustments are possible.









