

Digital Fiber Sensor FS-N10 Series Instruction Manual



Read this manual before using the product in order to achieve maximum performance. Keep this manual in a safe place after reading it so that it can be used at any time.

Danger	Failure to follow these instructions may lead to death or serious injury.
Warning	Failure to follow these instructions may lead to injury.
Caution	Failure to follow these instructions may lead to product damage (product malfunction, etc.)

Note Provides additional information on proper operation.

Tip This provides useful tips for the feature being described.

See "FS-N10 Series User's Manual" for details on the features of the FS-N10 Series and detailed instructions for configuration.

Hints on Correct Use

Warning	<ul style="list-style-type: none"> This product is just intended to detect the object(s). Do not use this product for the purpose to protect a human body or a part of human body. This product is not intended for use as explosion-proof product. Do not use this product in a hazardous location and/or potentially explosive atmosphere. This product uses DC power. Do not apply AC power. The product may explode or burn if an AC voltage is applied.
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- Do not use the amplifier unit along with power lines or high-tension lines, as the sensor may malfunction or be damaged due to noise.
- When using a commercially available switching regulator, ground the frame ground terminal and ground terminal.
- Do not use the FS Series outdoors, or in a place where extraneous light can enter the light-receiving element directly.
- Due to individual dispersion characteristics and the difference in fiber unit models, the most exact pointing distance or displayed value may not be the same on all units.
- If the sensor is used for a long time with the APMC function enabled and the LED is impinged with a heavy load, the current consumption of the sensor for light emission will become constant and "END APMC" will be displayed. The sensor can still be used in this case. However, replace the sensor if such small changes in received light intensity should be detected for precise detection.

Precautions on Regulations and Standards

UL Certificate

- This product is an UL/C-UL Listed product.
- UL File No. E330717-1
 - Category: 600VAC/30mA/20
 - Enclosure Type: 1 (Based on UL50)

- Be sure to consider the following applications when using this product as an UL/C-UL Listed Product.
- Use the power supply with Class 2 output defined in NFPA70 (NEC) National Electrical Code.
 - Power supply/Control input/Control output shall be connected to a single Class 2 source only.
 - Use with the over-current protection device which is rated 50V or more and not more than 1A.

Included accessories

- Instruction Manual 1pc

FS-N10 Series Quick Start

Quick Start



- This is a channel switch on 2-output types. This is not equipped with the 0-line type.
- Press and hold the [MODE] button to make advanced setting changes.

Names of Each Part of the Main Unit and Expansion Unit



- Setting to "M" sets the power mode to MEGA mode. The switch is a channel switch for the two-output type. This is not equipped with the 0-line type.
- On the FS-N1000, this is an I/O connector rather than a cable. On the FS-N1000H, this is an I/O-CAN connector.

Mounting Unit

Mounting on a DIN Rail

- Align the clew at the bottom of the main body with the DIN rail, as shown in Figure 1. While pushing the main body in the direction of the arrow 1, push down in the direction of arrow 2.
- To dismount the sensor, raise the main body in the direction of the arrow 3 while pushing the main body in the direction of arrow 1.



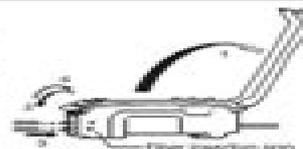
Installation on a Wall (Main Unit Only)

- Attach the unit to the optional mounting bracket (OP-17480), and secure with two M2 screws as shown in Figure 2.



Connecting Fiber Unit

- Open the dust cover in the direction shown by arrow 1.
- Slide the fiber lock lever in the direction shown by arrow 2.
- Insert a fiber unit into the amplifier as indicated by arrow 3 (approximately 14 mm).
- Slide the fiber lock lever in the direction shown by arrow 4 to secure the fiber.



Es N Series Manual

Ying Liu



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