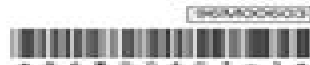


Digital Fiber Sensor FS-N10 Series Instruction Manual



	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 operations that can be easily mistaken.

This provides tips about situations in which the feature being described is useful.

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 used to detect targets. Do not apply the product to safety circuits for human protection. This product is not of explosion-proof construction. Do not use the products in places with flammable gas, liquid, or dust. This product is a sensor of DC power supply type. Do not apply AC power. The product may explode or burn if an AC voltage is applied.
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- Do not wire the amplifier line along with power lines or high-tension lines, otherwise the sensor may malfunction or receive damage 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 surface directly.
- Due to the individual dispersion of characteristics and the difference in fiber unit model, the maximum sensing distance or displayed value of all the units are not the same.
- If the sensor is used in S-APC mode for a long time, the LED indicators will be imposed with a heavy load. In this case, the sensor will be automatically set to MCC mode where the current consumption of the sensor for light emission will be constant, and "END-APC" will be displayed. The sensor can be continuously used in this case. Replace the sensor, however, if highly precise detection is required.

About UL Certification

The FS-N1 series is UL and C-UL certified, and is compliant with the UL and CSA standards.

- Applicable standards: UL508 Industrial Control Equipment, CAN/CSA C22.2 No. M4-M65 Industrial Control Equipment
- UL File No. E361717
- UL categories: RPLCPL, RPLCPLT
- Enclosure Type 1 (based on UL50 standard)

Notes on UL Certification

- The power source used with the FS-N1 series must be UL Listing certified for Class 2 output as regulated by ICS National Electric Code (NEC) Article 90.
- Connect the FS-N12 and N14 to the FS-N11 and N13 main units for use.

Included accessories

- Instruction Manual 1 pc.
- Fiber cutter 1 pc.

FS-N10 Series Quick Start and Cabling

Quick Start



- *1 This is a channel switch on 2-output types.
*2 Press and hold the [MODE] button to make advanced settings.

Cabling

Note See page 4 for information about connecting to external devices other than the FS-N10 UA.



Mounting Unit

Mounting on a DIN Rail

- Align the claw 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, slide it in the direction of the 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 the arrow 1.



Installation on a Wall (Main Unit Only)

- Attach the unit to the optional mounting bracket (OP-73660), mount them together, and secure them with two M2 screws as shown in figure 2.



Connecting Fiber Unit

- Open the dust cover in the direction shown by arrow 1.
- Move down the fiber lock lever in the direction shown by arrow 2.
- Insert a fiber unit into the fiber insertion hole to a length of the fiber insertion hole (i.e., approximately 14 mm).
- Move down the fiber lock lever in the direction shown by arrow 4.



Note If a thin fiber unit is used, an adapter provided with the thin fiber unit will be required. Unless the correct adapter is connected, the thin fiber unit will not detect targets correctly (the adapter is supplied with the fiber unit).

Cable outer dia.	Adapter	Appearance
φ 1.3	Adapter A (OP-24500)	
φ 1.0	Adapter B (OP-24501)	

- To connect the coaxial reflective type fiber unit to the amplifier, connect the single-core fiber to the transmitter side, and connect the multiple-core fiber to the receiver side.



Keyence Instruction Manual

David Baud



Keyence Instruction Manual:

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