

INSTRUCTION MANUAL

350 Heat-resistant fiber
FT-H35- 、 FD-H35-

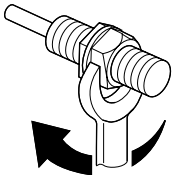
1 PRECAUTIONS

- Keep the sensing surface intact. If it is scratched, the detectability will deteriorate.
- Do not use the fiber at places having intense vibration or impact.
- If the sensing surface gets dirty, wipe dirt or stains from the sensing faces with a soft cloth.
- Do not expose the fiber cable to any organic solvent.
- Do not apply excessive tensile force to the fiber cable.
- The bending radius of the fiber cable must be R25mm or more. If the bending radius is smaller than the specification, the sensing ability is decreased.
- The sleeve part bending radius of fiber with sleeve must be 10mm or more.
- Take care that the sensor is not directly exposed to fluorescent light from a rapid-starter lamp or a high frequency lighting device, as it may affect the sensing performance.
- Do not move or bend the fiber cable after sensitivity adjustment. Detection may become unstable.

2 MOUNTING OF FIBER

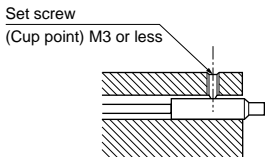
- When mounting, follow the guidelines given below for the tightening torque.

Mounting with lock nut



Model No.	Nut size	Tightening torque
FT-H35-M2 FT-H35-M2S6 FT-H35-M3	M4	0.98N·m or less
FD-H35-20S	M4	0.58N·m or less
FD-H35-M2 FD-H35-M2S6 FD-H35-M3 FT-H35-M2A	M6	1.96N·m or less

Mounting with set screw



Tightening torque
0.29N·m or less

Thank you very much for using SUNX products. Please read this manual carefully and thoroughly for the correct and optimum use of this product.

Kindly read the manual of the applied amplifier too. Keep this manual in a convenient place for quick reference.

3 CONNECTION WITH AMPLIFIER

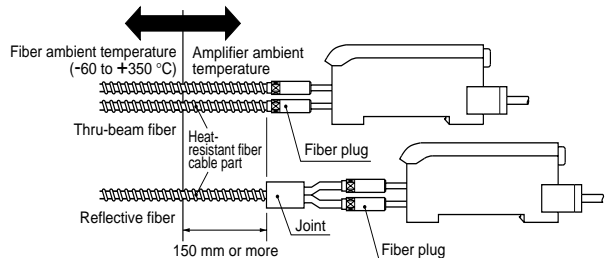
- Insert the fiber plug into the socket slowly.
- Then, fasten the fiber.

In case of Reflective Type of fiber

- Insert the fiber having engraved 'P' mark into the emitting side hole of the amplifier, and insert the fiber having engraved 'D' mark into the receiving side hole of the amplifier.
 (There are no the engraved marks on the thru-beam fibers, **FD-H35-M2S6** and **FD-H35-20S**.)

4 OPERATION TEMPERATURE

- Keep the amplifier and the fiber cable of length 150mm or more under the rated amplifier ambient temperature range.



- Make sure that the amplifier unit is not directly exposed to radiant heat or hot wind.
 - The surface of the fiber head or the spiral of the 350°C heat-resistant fiber may be discolored by heat. However, this does not affect the detection capability.
 - If the fiber is used under -30°C, the usable maximum temperature drops to +200°C.
 - Always bend fiber cable optics slowly under the ambient temperature of -30°C and below, otherwise it may be broken down.
 - If the side-view lens **FX-SV1** is put on the fiber head of **FT-H35-M2**, the allowable maximum temperature comes down to +300°C.
 (The ambient temperature range of the **FX-SV1** is)
 from -60 to +300°C.
- Further, if **FT-H35-M2** is used with the expansion lens, take care that the beam becomes narrow. Therefore, make sure to align the beam axis before use.

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