

INSTRUCTION MANUAL

200°C Heat-resistant fiber
FT-H20-□, FD-H20-□

1 SPECIFICATIONS

Type	200°C Heat-resistant fiber					
	Thru-beam		Reflective			
Item	Model No.	FT-H20-500	FT-H20-M1	FD-H20-500	FD-H20-M1	FD-H20-21
Allowable bending radius	R25mm or more					
Ambient temperature	-60 to +200°C (No dew condensation or icing allowed)					
Ambient humidity	35 to 85% RH					
Fiber length	0.5m	1m	0.5m	1m	1m	
Material	Fiber core : Multi-component glass Sheath : Silicon (Stainless steel spiral tube inside) (Stainless steel mesh for FD-H20-21) Sensing probe : Brass (Nickel-plated)					

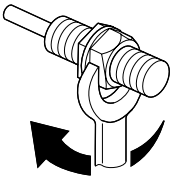
2 PRECAUTIONS

- 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.
- 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.

3 MOUNTING OF FIBER

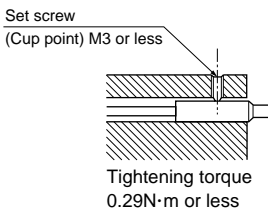
- When mounting, follow the guidelines given below for the tightening torque.

Mounting with lock nut



Model No.	Nut size	Tightening torque
FT-H20-500 FT-H20-M1	M4	0.58N·m or less
FD-H20-21	M4	0.58N·m or less
FD-H20-500 FD-H20-M1	M6	0.98N·m or less

Mounting with set screw



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.

4 CONNECTION WITH AMPLIFIER

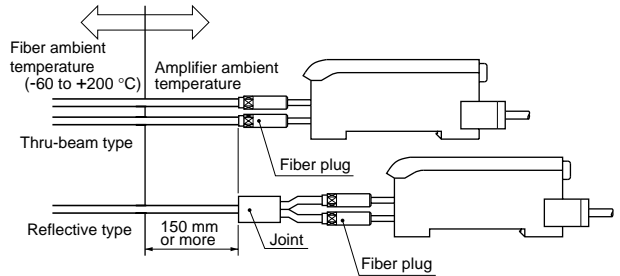
- Insert the fiber plug into the socket slowly.
- Then, fasten the fiber.

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. For **FD-H20-21**, only the emitting side fiber has the engraved 'P' mark.)

5 OPERATION TEMPERATURE

- Keep the amplifier and the fiber 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.

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