

Liquid Detection Fiber Head (Pipe-mountable Liquid Detection Fiber) FT-F93

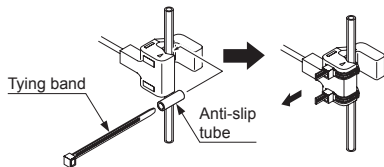
MJEC-FTF93 No.0055-85V

Thank you very much for purchasing Panasonic products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

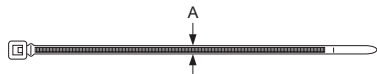
- For the connecting method of the fiber attachment, refer to the Instruction Manual attached to the fiber attachment.
- Also read "**Instruction Manual of General-purpose Fiber Head**" carefully and thoroughly for the correct and optimum use.

1 MOUNTING

- Mount the fiber on a pipe with the attached tying bands and the anti-slip tubes as shown in the diagrams below. Fasten two tying bands, as shown, and cut off the excess portions.



- If other tying bands are to be used, the dimension A shown in the figure below should be 2.5mm or less.



Recommended tying band: T181-HS [Hellermann Tyton Co.,Ltd.]
(Material: Nylon)

2 CAUTIONS

- Since a water drop on the pipe's sensing surface can affect the sensing performance, avoid using this fiber head at a place where water splashes. Further, take sufficient care against dew condensation etc. on the pipe's outside wall.
- Take care that shortening the fiber cable excessively may result in loss of reliable detection due to an insufficient light intensity difference. (As a reference, adjust the length of the fiber cable at 1m and when mounted on the pipe, the displayed digit value of the amplifier in liquid absent condition should be 3,500 or less.)
- Fluorine resin (PFA) or equivalently transparent pipe, wall thickness 0.3 to 1.0mm and diameter is $\phi 3.0$ to $\phi 10.0$ mm, can be mounted to this product. Liquid in an opaque pipe cannot be detected correctly.
- Unclear or highly viscous liquid may not be detected stably. Check the sensing operation with liquid actually to be used.
- Take care not to scratch the fiber sheath while cutting the protective tube.
- The detection result may vary greatly if the this sensor is not firmly secured. Use the attached anti-slip tube to firmly secure it to the pipe so that it does not move.
- Make sure to adjust the sensitivity of the amplifier after mounting the fiber in liquid absent condition in the pipe. In case of re-mounting the fiber to the pipe or change in layout, adjust the sensitivity of the amplifier again.
- Note that light intensity may decrease when used under high temperature and high humidity for a long period.
- Liquid being detected should also be kept within the rated ambient temperature range (-40 to +60°C).

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