Panasonic® INSTRUCTION MANUAL

Leak Detection Fiber **FD-F71**

MJEC-FDF71 No.0069-04V

Thank you very much for purchasing Panasonic products. 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.

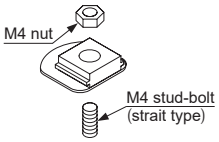
- For the mounting method to the amplifier, refer to the Instruction Manual attached to the amplifier [**FX-301**(**P**)-**F7**],[**FX-500 series**].
- For the method of mounting the fiber attachment (**FX-AT4**) and the method of using the fiber cutter, refer to the Instruction Manual (for general-purpose fiber head) provided with the product.

1 CAUTIONS

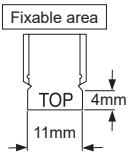
- Do not scratch the sensing surface. If it is scratched, the detectability will deteriorate. When conducting maintenance after operation, wipe all liquid from the sensor head and the mounting bracket with a soft cloth. Further, take sufficient care against dew condensation on the sensing surface.
- The fiber cable can be cut for adjustment using the attached fiber cutter (**FX-CT2**), however, the sensing performance may decrease depending on the cut condition of the fiber cable and the connection to the amplifier.
- If the intensity of incident light to the amplifier is saturated under no-liquid condition, perform saturation correction before using.
- Take care not to scratch the fiber sheath while cutting the protective tube.
- Make sure to use the exclusive mounting bracket when installing the sensor head to avoid human error. Reliable detection cannot be guaranteed when this mounting bracket is not used. However, in case the PVC mounting bracket is mounted on the dark and mat surface, human error may not be detected. Make sure to check it prior to use.
- Make sure to adjust the sensitivity of the amplifier after mounting the fiber head in the exclusive mounting bracket with no-liquid condition, completing layout and wiring the fiber cable in actual working conditions. Changes in layout or installation after completing sensitivity adjustment may result in the loss of reliable detection due to the change of incident light intensity.
  In case of re-mounting the fiber to the pipe or change in layout, adjust the sensitivity of the amplifier again.
- Note that the light intensity may decrease when used under high temperature and high humidity for long period.
- A liquid having poor affinity to the material of the sensor head (PFA) may create air bubbles, and if those are drawn in the sensing part, it takes some time for sensing to stabilize, or sensing may even become unstable.
  Make sure to check whether the sensing liquid has an affinity ti the material of the fiber head.
- Highly viscous liquid may not be detected stably.
  Liquid being detected should also be kept within the rated ambient temperature range.

2 MOUNTING

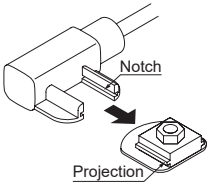
- In case of using the SUS mounting bracket, insert the M4 stud-bolt (straight type) welded on the customer's facilities into the mounting hole of the mounting bracket and screw with M4 nut (please arrange separately). The tightening torque should be 0.98N·m or less.



- In case the PVC mounting bracket is used, face the 'TOP' inscribed side up and use adhesive to stick fast the mounting bracket on the mounting surface. Make sure that the adhesive does not stick out from the fixable area as shown in the figure below.



- Match the notch in the sensor body with the projection of the exclusive mounting bracket and slide till a click is felt.



Panasonic Corporation
Panasonic Industrial Devices SUNX Co., Ltd.
https://panasonic.net/id/pidsx/global

Please visit our website for inquiries and about our sales network.