

Safety Precautions for Sensing Bands and Liquid Leakage Point Sensors

⚠ WARNING

Do not touch the terminals while power is being supplied. Doing so may possibly result in electric shock.



Do not attempt to disassemble, repair, or modify the Product while power is being supplied. Doing so may occasionally result in electric shock.



■ Precautions for Safe Use

Observe the following points to ensure safe operation.

- Be sure to use a power supply voltage within the specified range. Not doing so may result in burning or malfunction.
- Do not use the product in locations subject to flammable gases or combustible objects. Doing so may result in fire.
- Insert the connection points into Sockets until the connection is locked securely. Not doing so may result in burning or malfunction.
- Do not short-circuit loads connected to output terminals. Doing so may result in burning.
- Do not use the Product in locations subject to explosive dust, combustible dust, combustible gas, flammable vapors, corrosive gas, excessive dust, salt water spray, or water drops.

■ Precautions for Correct Use

Operating Environment

- Use the Product within the rated ambient operating temperature, ambient operating humidity, and storage temperature specified for each model.
- Use the Product within performance characteristics for vibration, shock, flooding, and exposure to oil specified for each model.
- Install the Product away from equipment that generates strong high-frequency noise, such as high-frequency welders and high-frequency sewing machines.

Installation

Attach to a panel of thickness 1 to 5 mm.

Do not install in the following locations.

- Locations subject to shock or vibration
- Locations where the temperature or humidity lies outside the specified range, or where condensation is likely to occur (To detect liquids with high impedances, do not use in locations with high humidity.)
- Locations subject to dust
- Locations subject to corrosive gases (particularly sulfide and ammonia gases)
- Outdoors or locations subject to direct sunlight
- Near devices that generate strong high-frequency noise (e.g., high-frequency welding devices etc.)

■ Sensing Bands and Accessories

Sensing Bands

Sensing Bands detect leaking liquid. Use the Electrodes and Sensing Band that are used with OMRON 61F Floatless Controllers. OMRON Sensing Bands: F03-15, F03-16PE, F03-16PT.

Socket

- Use the specified Socket.
- The suitable torque for M3 tightening screws is 0.78 to 1.18 N·m.

Wiring Cable

- If Sensing Band is a long way from the Controller, used the specified Cable to wire to the Sensing Band.
- Noise resistance has been sufficiently considered in the Product design. If, however, monitoring is required at a remote location, install the Controller as close as possible to the Sensing Band and extend the power and output cables to the monitoring location to reduce the effects of noise as much as possible.

	IV cable	Sensing Band
61FGPN-V50	0 m (See note.)	200 m max.
	10 to 150 m (See note.)	150 m max.
	200 to 300 m (See note.)	100 m max.
	350 to 400 m (See note.)	50 m max.

Note: Distances are for 2-mm² wires.