**Safety Precautions**

In this operation instruction sheet, safety precautions are categorized in order of importance to Warning and Caution:

**WARNING**

Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

**CAUTION**

Caution notices are used where inattention might cause personal injury or damage to equipment.

**WARNING**

- Before designing the final equipment and powering up the LH1D indicator, confirm the specifications described on this sheet. If there is any uncertainty in the description, contact IDEC before powering up the LH1D indicator. Do not disassemble, repair, or modify the LH1D indicator, otherwise severe accidents may result, such as electric shocks, damage, fire, or malfunction. Turn off the power to the LH1D indicator before wiring. Make sure of correct wiring, otherwise electric shocks or damage may result. Make sure that the LH1D indicator does not fail during transportation, installation, and operation, otherwise damage may result. Do not pull out or push in the cable of the LH1D indicator, otherwise damage may result. Give a slack to the cable while wiring. The LH1D indicator is a general-purpose and industrial electronic device. Do not use the LH1D indicator for electronic equipment which may damage a human body or threaten a life in case a malfunction or failure occurs.

**CAUTION**

- LED modules and indicator may vary in illumination colors and illuminance. Apply a voltage within the rated value, otherwise the LED elements may be damaged. Temporarily withstand static electricity. Take a sufficient measure for protection against static electricity and surge voltages. Do not apply an excessive force to the LH1D indicator. Do not leave a damaged LH1D indicator unattended or use a damaged LH1D. Make sure of the correct operating temperature, which is the temperature around the LH1D indicator. Otherwise internal temperature rise may result in damage. Do not use or store the LH1D indicator in a place subjected to vibrations and shocks. Do not use the LH1D indicator in the following places:
  - Basements, greenhouses, and other humid places
  - Cold storage warehouses and cooler exhaust outlets
  - Subjected to chemicals, and corrosive gases
  - Exposed to direct sunlight, near heaters, and at high temperatures
  - Used in places which are not subject to freezing (make sure that no freezing occurs)

**Specifications**

- **Rated Insulation Voltage** (Ui): 32V
- **Rated Voltage**: 24V AC/DC
- **Operating Voltage Range**: 24V AC/DC±10%
- **Rated Current**: 17 mA
- **Maximum Current Draw**: 0.6W

**Panel Mounting**

Using two M3 screws, install the LH1D indicator to a mounting surface. To mount the LH1D indicator, first apply a voltage within the rated value, otherwise the LED elements may damage a human body or threaten a life in case a malfunction or failure occurs. Mounting screws are not provided and must be supplied by the user.

- **Dome Type**
  - Lens
  - Housing
  - Gasket
  - Diffusion Film
  - Marking Film
  - Cables
  - Connectors

- **Flat Type**
  - Lens
  - Housing
  - Gasket
  - Diffusion Film
  - Marking Film
  - Cables
  - Connectors

**Inserting Marking Film into Flat Type Lens**

1. Insert a flat screwdriver into the groove between the base and lens.
2. Turn the screwdriver and disengage the lens from the base.
3. Remove the lens from the base.
4. Insert the edge of a marking film into the gap between the the base and the diffusion plate, and place the marking film on top of the diffusion plate.
5. Install the lens. Ensure that the lens is installed snugly.

**Markings**

Legends and symbols can be printed on a marking film for the flat lens. Marking films are not attached and must be supplied by the user. Recommended marking film: Polyester

- **Two-color alternate illumination**
  - Cable color: White
  - LED color: Green
  - Cable color: Brown
  - LED color: Red

- **One-color illumination**
  - Cable color: White
  - LED color: Green
  - Cable color: Brown

**Wiring**

- On one-color illumination type, the green wire is cut short because it is not used.
- When the cable is cut for shorter wiring, also cut the green wire or do not connect the green wire.

**Precautions for Disposal**

- Dispose of the LH1D LED indicator as an industrial waste.