

INSTRUCTION SHEET

LH1D Surface Mount Indicator LH1D Series

Confirm that the delivered product is what you have ordered.
Read this instruction sheet to make sure of correct operation.
Make sure that the instruction sheet is kept by the end user.

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 scried 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 fall 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.
- The LH1D indicator is vulnerable to 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:
Exposed to direct sunlight, near heaters, and at high temperatures
Subjected to chemicals, and corrosive gases
Basements, greenhouses, and other humid places
Cold storage warehouses and cooler exhaust outlets
(make sure that no freezing occurs)

1 Types

	Type No.
Dome Type	LH1D-D2HQ4C□◇
Flat Type	LH1D-H2HQ4C□◇

□ : Cable length ◇ : Illumination color

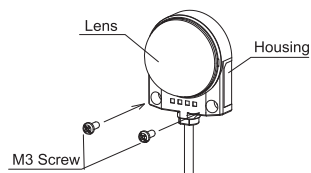
2 Specifications

Rated Insulation Voltage(Ui)	32V	
Rated Voltage	24V AC/DC	
Operating Voltage Range	24V AC/DC±10%	
Rated Current	Dome Type	13 mA
	Flat Type	17 mA
Maximum Current Draw	0,6W	

3 Panel Mounting

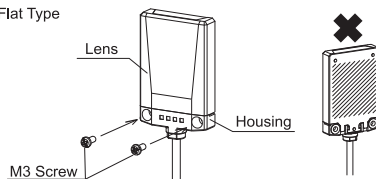
Using two M3 screws, install the LH1D indicator to a mounting surface. Tighten the screws to a torque of 0.6 N·m maximum. Mounting screws are not provided and must be supplied by the user.

• Dome Type



Note: The dome lens is not removable.
Do not attempt to remove the lens, otherwise damage will occur.

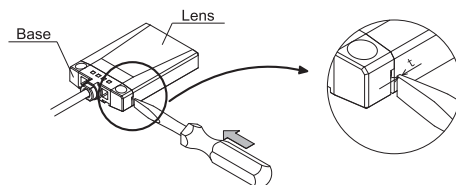
• Flat Type



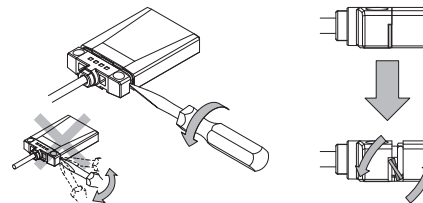
Note1: Do not install the LH1D indicator by attaching on the lens only, such as by taping down the lens. Otherwise the internal components may come loose.
Note2: Make sure that the back of the LH1D is securely attached to the mounting surface, so that the lens cannot be easily removed.

4 Inserting Marking Film into Flat Type Lens

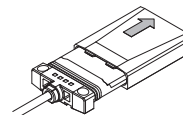
1. Insert a flat screwdriver into the groove between the base and lens.



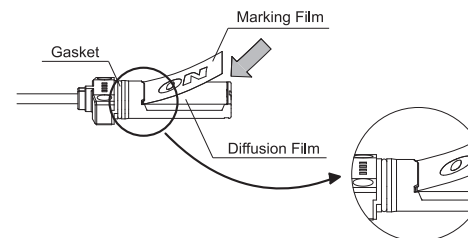
2. Twist the screwdriver and disengage the lens from the base.



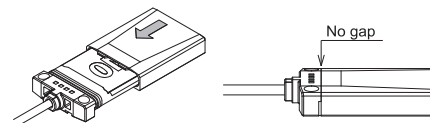
3. Remove the lens from the base.



4. Insert the edge of a marking film into the gap between the base and the diffusion plate, and place the marking film on top of the diffusion plate.



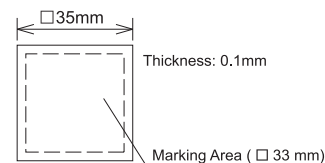
5. Install the lens. Ensure that the lens is installed snugly.



Note: Do not touch the gasket as this may affect its waterproof characteristic.

5 Markings

Legends and symbols can be printed on a marking film for the flat lens. One 0.1mm-thick film can be installed. Marking films are not attached and must be supplied by the user. Recommended marking film: Polyester



6 Internal Circuit

-Dome Type / Flat Type

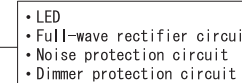
-On one-color illumination

Cable color: Brown — (A) — Cable color: White

-Two-color alternate illumination

Cable color: Brown — (A) — Cable color: White
LED color: Green
Cable color: Green — (A) — Cable color: Red
LED color: Red

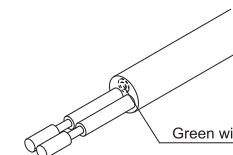
* Circuit of A



* — (R) — Resistance

7 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.



8 Precautions for Disposal

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

User's manual can be downloaded from
<http://www.idec.com/download>

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