

Leak Detector (LD) Series

Operating Instructions

1.0 Document Information

This manual complements the technical information in the product datasheet LD-B-22.04S, which can be found on our website, www.bluetechcorp.com.

2.0 Basic Safety Instruction

2.1 Designated Use

Use of the device for any purpose other than that described may pose a threat to people's safety and/ or of the measurement system and is therefore not permitted.

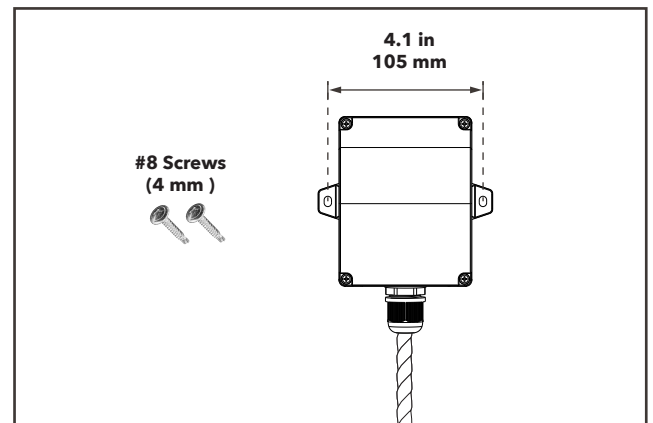
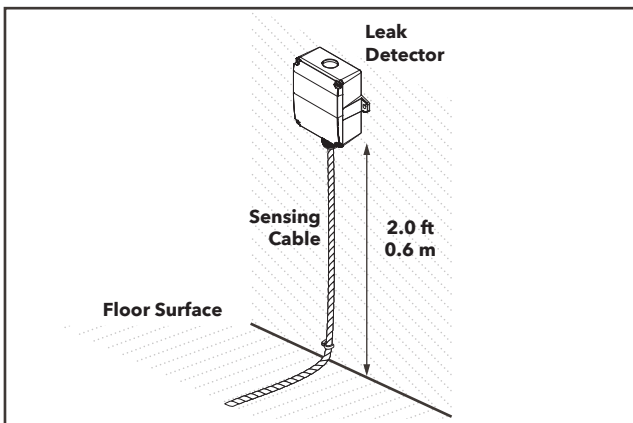
The manufacturer is not liable for damage caused by improper or non-designated use.

3.0 Installation

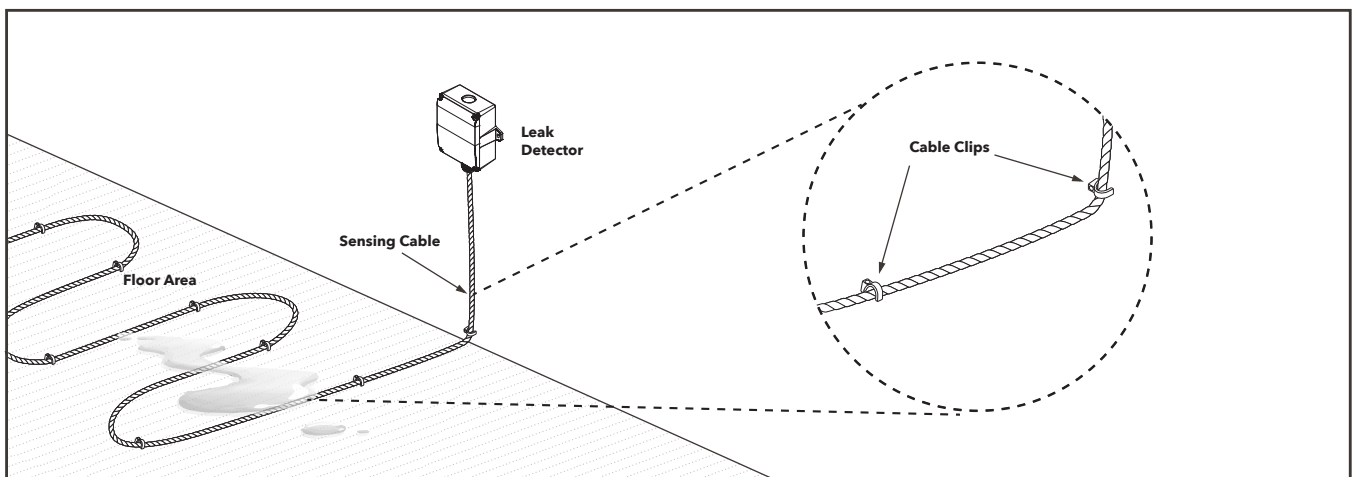
3.1 Mounting

The Leak Detector device can be mounted to the nearest wall of the area required for monitoring. We recommend this device to be installed at least 2 feet (0.6 m) from the floor.

Drill two holes with center to center distance of about 4.1 inches. Mount the device using one pair of #8 (4 mm) screws. The device can be installed in any position as required.



The entire length of cable is the sensor. Spread the sensing cable as necessary to areas required for monitoring and secure the sensing cable with cable clips.



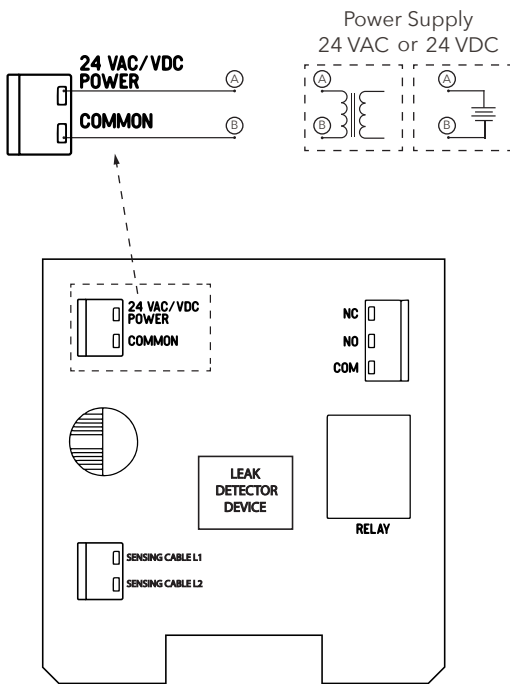
4.0 Electrical Connection

4.1 Supply Voltage

! WARNING

Supply voltage may be connected!
Risk of electric shock!

- When using the detector device, installation must comply with the corresponding national standards and regulations as well as these Safety Instructions.



5.2 Operation

The Leak Detector device, once in operation, will continuously energize the relay in the circuit. In normal condition, the output NC relay will be in open/ disconnected position and the output NO relay will be in contact/ closed when power is supplied to the device. The device will maintain this status until leaking will be detected from the sensing cable.

Once leaking is detected by the sensing cable, the output NC relay will be in contact or closed and the output NO relay will be released/ disconnected. The device will maintain this status until leaking will be resolved or the sensing cable dries out or no longer in contact with any liquid.

As the relay is in reverse action configuration, once power is interrupted in the device, the output NC relay will be in contact or closed and the output NO relay will be released/ disconnected. Once power is supplied again, the device will return to its normal condition.

4.2 Relay Output

- The relay is in Form-C configuration (NO, NC, COM), 10 A, 277 VAC rating. 1 Auxiliary relay option is available if needed.

- Relay terminals are isolated from the board power supply; and relay will connect COM to either NC or NO terminal.

- Connect the sounder or alarm digital input signal to the output NC relay terminal as the relay is in reverse action configuration. Test the operation a few times and verify functionality once connected to ensure proper operation.

4.3 Cable Specification

- Use 22 AWG wire for all connections, preferably twisted, screened cables.
- Do not locate the device wires in the same conduit with inductive load wiring such as motor wiring.

5.0 Commissioning

5.1 Start-up

Verify that the device is correctly wired according to the wiring diagrams and all secured. Once verified, apply power accordingly.



6850 N. HAGGERTY ROAD,
CANTON, MI 48187, USA

E CONTACTUS@BLUETECHCORP.COM
W WWW.BLUETECHCORP.COM