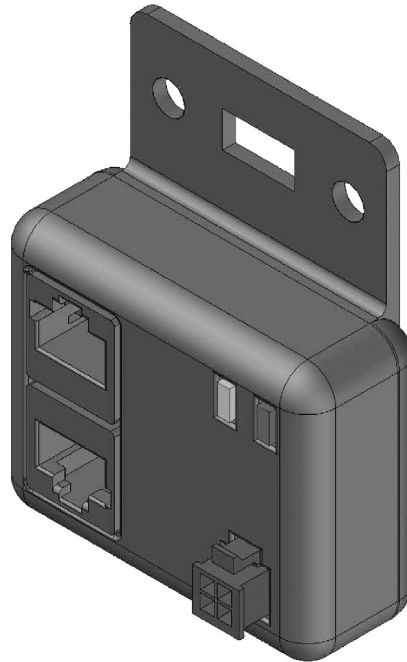# LIEBERT® SN™ LEAK DETECTION SENSOR
Quick Installation Guide

The Liebert SN Leak-detection sensor senses when liquid contacts a connected leak-detection cable and reports that to a monitoring device.

The Liebert SN Leak Detection Sensor ships with the following items:

- SN-L20 Leak-detection sensor
- 3-ft (0.9-m) Connection cable
- Ethernet cable
- 20-ft (6.1-m) leak-detection cable
- Quarter-turn fastener
- Hold-down clips (10 clips)
- Quick Installation Guide

CONNECT AND CONFIGURE THE SENSOR

Record the sensor IP address
During installation, the Web user interface (UI) of your Liebert monitoring product displays the IP addresses of all connected sensors. Before mounting and connecting this or any sensor, record the sensor's IP address.

Mounting the sensor on a rack frame or 19-in. rail
The Liebert SN sensors may be placed in any area to monitor and protect from damage from liquid spills.

Hold the sensor in its location, insert the quarter-turn fastener into the slot on the back of the sensor, and turn the fastener clockwise 90 degrees.

Connecting the sensor to a Liebert monitoring product
The Liebert SN sensors may be connected in a string, in any combination of modular and integrated sensors.

The maximum length of a string is 65.6 ft (20 m) and the maximum number of probes depends on the Liebert Monitoring product.

- Using the supplied Ethernet cable or field-suppled RJ45–RJ45 cable, connect one end to the Liebert SN port on your Liebert monitoring product.
- Connect the other end to the sensor.

If connecting multiple sensors, use additional Ethernet cables to connect them in a string.

Configure the Sensor
Use the Web UI of the Liebert monitoring product to acknowledge the connected sensor and to configure sensor parameters including a sensor label and alarm triggers.
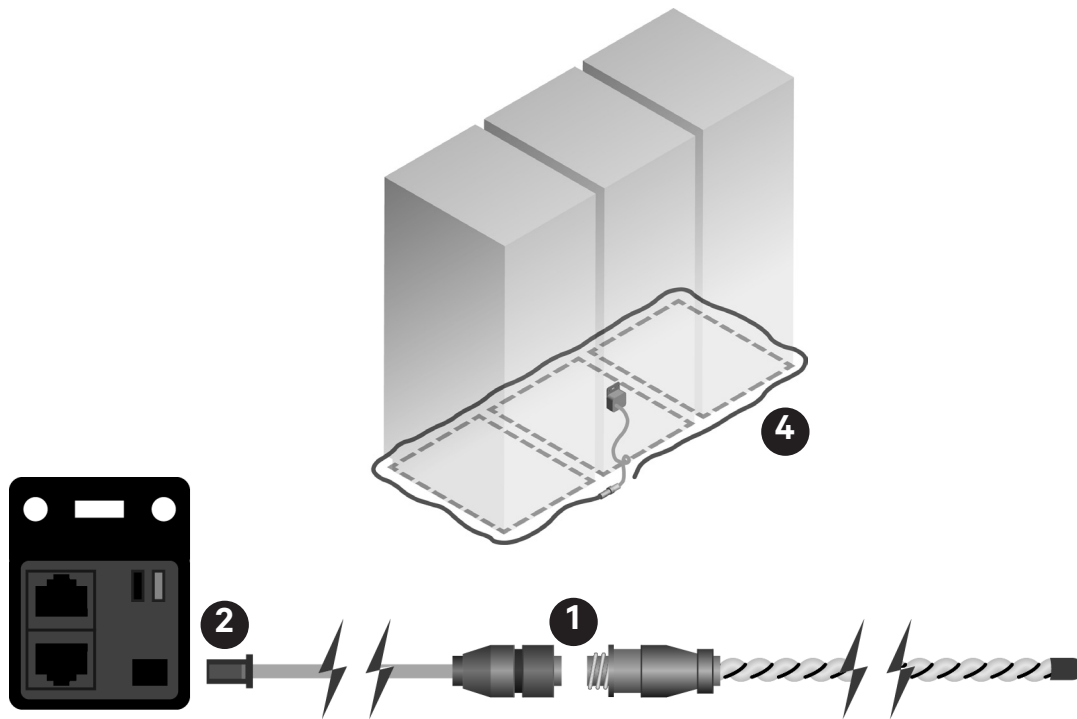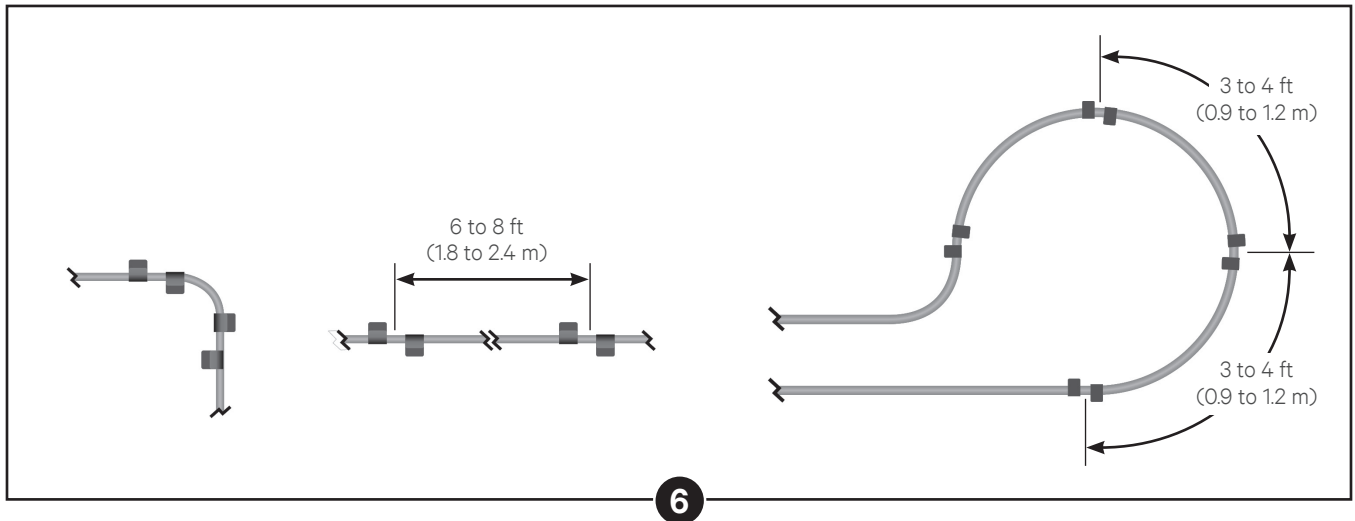
CONNECT THE LEAK-DETECTION CABLE

Observe the following guidelines and precautions when installing the leak-detection cable:

- Do not use conductive materials, such as Fire Block or caulk, on the leak-detection cable.

- Do not use any type of adhesive tape to secure the leak-detection cable.

- Do not use a leak-detection cable that is damaged or dirty for example, from plaster, spackle or debris.

- Do not drag the leak-detection cable through contaminants, such as dirt or grease.

- The floor must be clean for proper leak detection and for the hold-down clips to adhere. Use isopropyl alcohol to clean the spots on the floor for the hold-down clips.

- Use careful consideration to keep the leak-detection cable's route from the direct path of discharge air flow from air-conditioning or environmental equipment. If the cable is too close to the air stream, moisture from the discharge may cause false leak readings. Route the cable at least 6 ft (1.8 m) from discharge air flow to avoid nuisance alarms.

- Do not allow soldering or welding near the leak-detection cable without providing protection from heat and contamination. Also, avoid installing the cable near these types of areas.

- The clip's adhesive backing does not work well on porous concrete floors. We recommend using a drop of silicone or another non-conductive adhesive to help secure the clip to the floor.

1. **Connect the connection cable to the leak-detection cable.**
   Carefully push the plugs together making sure that the pins in the leak-detection cable plug are insert in the holes on connection-cable plug, then twist the connector ring to secure the cables together.

2. **Connect the other end of the connection cable to the sensor.**

3. **Prepare the surface on which the leak-detection cable will be installed.**
   To avoid contaminating the cable, clean the entire floor as much as possible.

4. **Lay the leak-detection cable.**
   Lay the cable around any equipment and objects that

6 to 8 ft
(1.8 to 2.4 m)

3 to 4 ft
(0.9 to 1.2 m)

3 to 4 ft
(0.9 to 1.2 m)

6

could be damaged by liquids with enough distance between the cable and the protected area to allow adequate response time to prevent damage.

5. **Test the leak-detection cable.**
Verify that power is connected, and verify that the leak-detection cable is working by touching it with a clean, moist cloth or paper towel. If the cable is properly connected, an alarm is generated.

NOTE: Do not saturate the leak-detection cable for testing. A small amount of water triggers an alarm, and the cable must dry for the alarm to clear.

Dry the cable to remove the alarm condition. Use a hair dryer to speed up drying if needed.

6. **Install the hold-down clips in pairs along the route of the cable.**

⚠ **CAUTION:** Do not allow the adhesive used on the hold-down clips to come in contact with the leak-detection cable.

- On a 90-degree turn, install 1 pair at the beginning of the arc and 1 pair at the end of the arc.

- On straight sections, install 1 pair every 6 to 8 ft (1.8 to 2.4 m).

- In a circular pattern, install 1 pair every 3 to 4 ft (0.9 to 1.2 m).

7. **Snap the cable into the clips.**
After the adhesive for the hold-down clips is completely dry, then snap the cable into each clip. Make sure that there are no gaps between the floor and the cable, adding clips as needed.

8. **Perform a final test.**
Make sure that there are no alarms on the sensor, then repeat the test from step 5.

SUPPORT

For product support, visit https://www. VertivCo.com/en-us/support/