

Vertiv™ Liqui-Tect™ 410 Point Leak Detection Sensor



Product Specification/Installation Guide for CoolPhase and CoolLoop Products

Point Leak Detection Sensor



Product Overview

The Vertiv™ Liqui-Tect™ 410 (LT410) provides single-point detection of leaks. The point-detection sensor has two gold-plated sensing probes to prevent corrosion and to provide accurate readings. The LT410 constantly monitors for leaks, internal faults, and power failures and warns of any abnormal conditions. Mounting brackets allow for sensor height adjustment and leveling.

The LT410 is the ideal solution for sensing leaks under a raised computer floor or air conditioning drip pans. Two independent outputs provide added flexibility with the capacity to signal both a local alarm panel, Vertiv cooling unit, and a remote building management system or external equipment, such as motorized water shutoff valves.

Applications

The LT410 is ideally suited for:

- Glycol and chilled water cooling
- Humidification supply water piping
- Condensate pumps and drains
- Unit and ceiling auxillary drip pans
- Overhead piping troughs

Locations/Placement

The LT410 is an excellent choice for:

- Large scale network control centers
- Data centers
- Server rooms and closets
- Unattended, remote shelters
- Mechanical equipment rooms
- Sensitive areas with overhead piping
- Industrial process control rooms

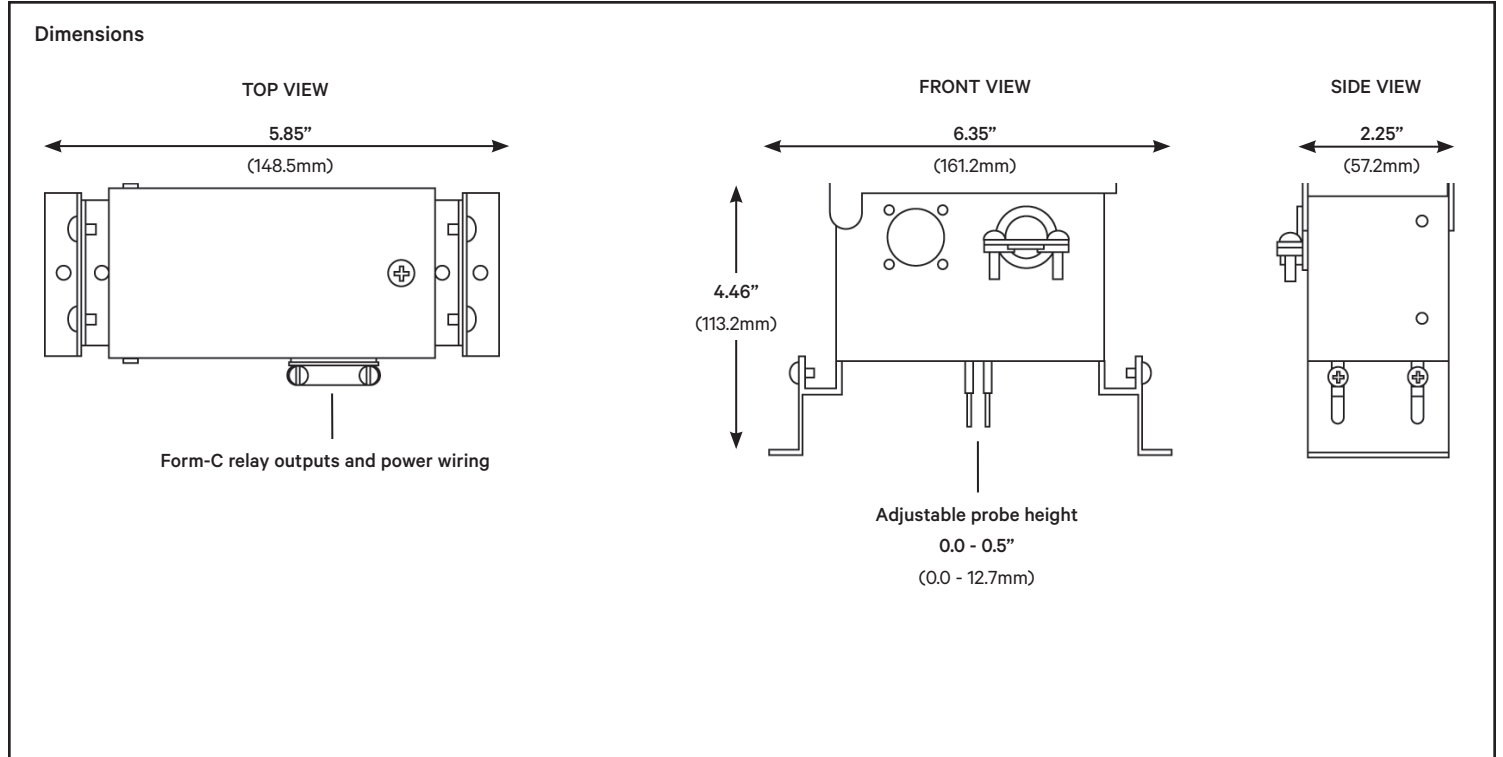
Components of the Module

The LT410 consists of a metal enclosure with a hinged top door that provides access to the internal wiring termination. It includes side access through a box connector for installation of the power and contact wiring. The mounting brackets attach to the enclosure with adjustable slots to allow custom setting of the height of the sensing probes.

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Specifications

Power Requirements	24 VAC 100 mA, 50/60 Hz, 3 VA (max.)
Dimensions, W x D x H	6.35 in. x 2.25 in. x 4.46 in. (161.2 mm x 57.2 mm x 113.2 mm)
Weight (assembled)	2.0 lb. (0.9 kg)
Metal Enclosure	NEMA 1, IP 30

Environmental Conditions

Operating Temperature	50°F to 104°F (10°C to 40°C)
Operating Humidity	10% to 95% relative humidity (non-condensing)
Operating Altitude	0 to 10,000 ft. (0 to 3,048 m)
Output Relay Contact Rating	2 Form-C; 3 A rating at 24 VAC

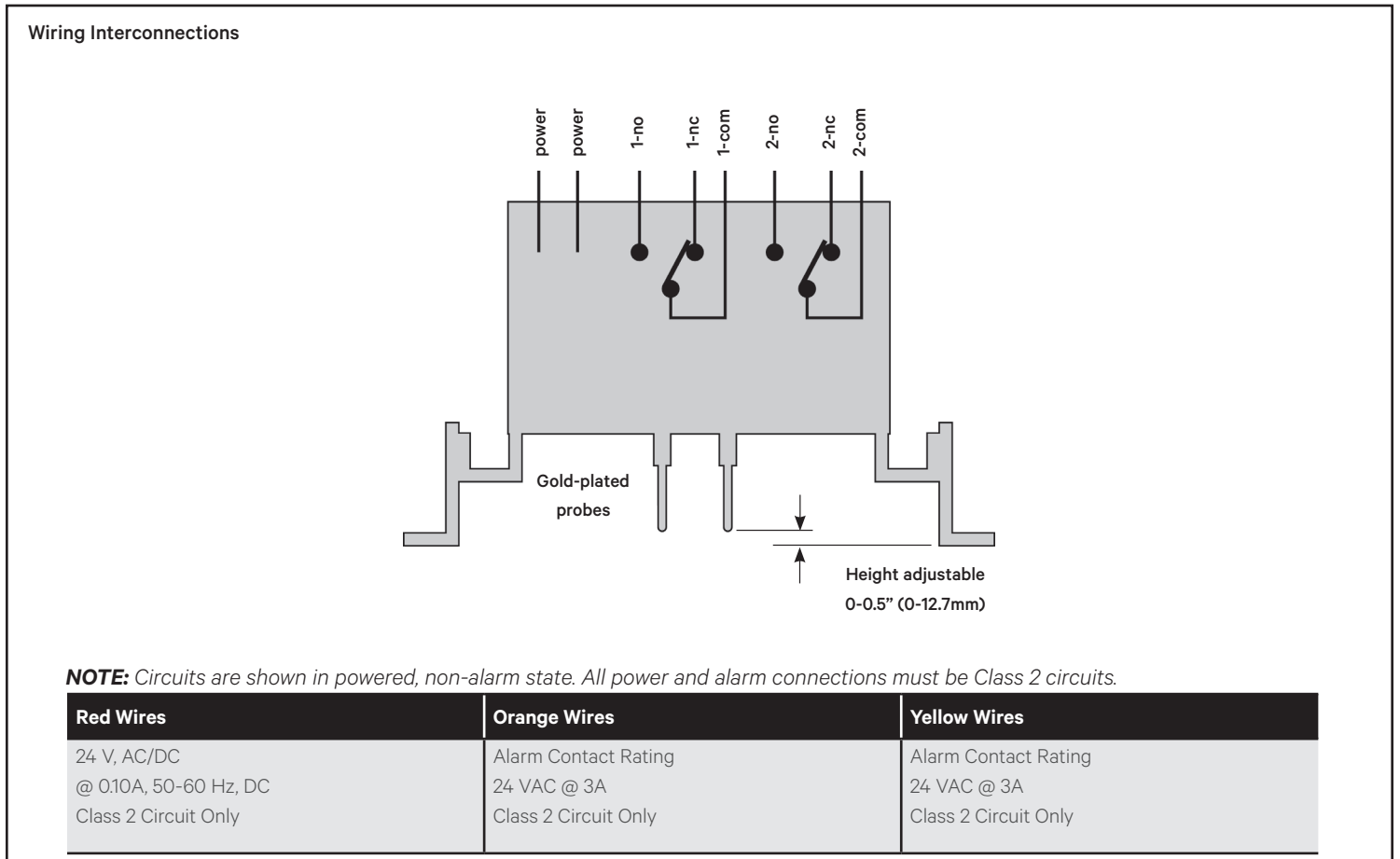
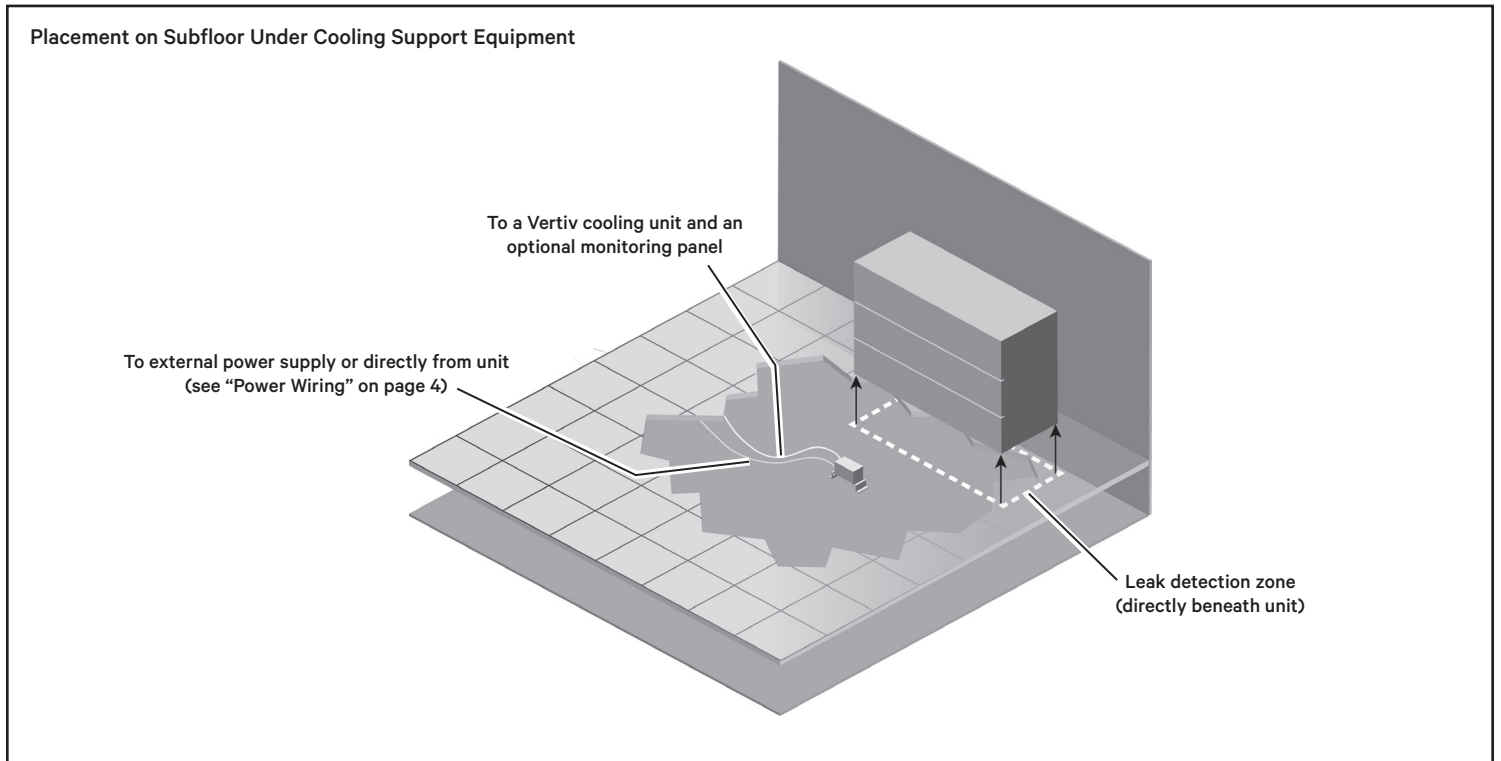
Agency Listings

UL	UL916
C-UL	C22.2, No. 205-M1983
CE	Yes
FCC Compliance	47 CFR, Part 15

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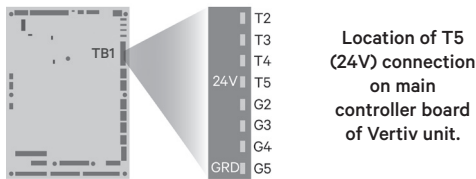
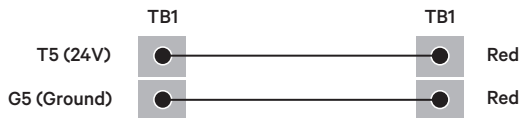


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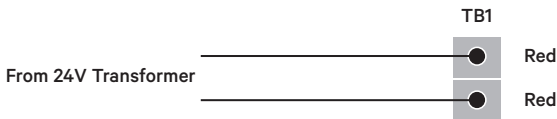
Power Wiring

The LT410 is rated for 24 VAC, 50/60 Hz, and 0.10 A.

Vertiv™ CoolPhase Perimeter, CoolLoop Perimeter, Mini-Mate with iCOM, or Mini-Mate2 (8 ton) LT410

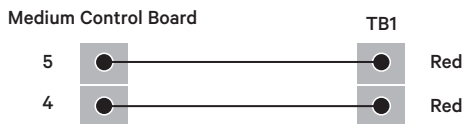


Vertiv™ Mini-Mate2 (1 to 5 ton) LT410

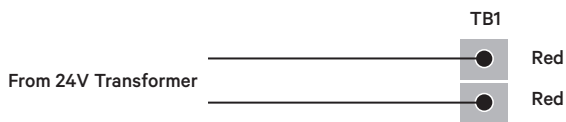


NOTE: Requires external transformer. There are designated terminal connections on the unit.

Vertiv™ CoolPhase Row LT410



Transformer LT410

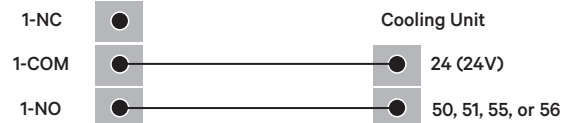


Wiring to Auxiliary Alarm Panels

The LT410 has two Form-C dry contact alarm output contacts: one orange wire and two yellow wires. Each contact is rated for 24 VAC at 3 amp.

LT410 Vertiv™ CoolPhase Perimeter, CoolLoop Perimeter, CoolPhase CDU, or Mini-Mate2 (8 ton)

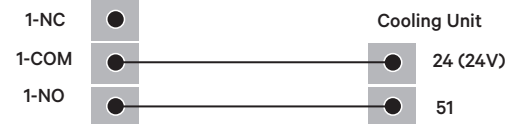
Orange Wires



NOTE: Terminal 50 not available on Mini-Mate2 (8 ton)

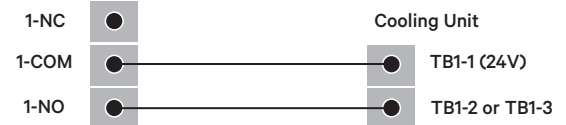
LT410 Vertiv™ Mini-Mate Variable Capacity with iCOM™

Orange Wires



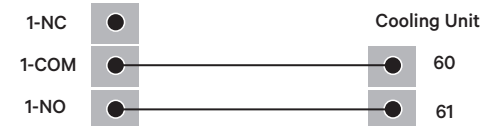
LT410 Vertiv™ Mini-Mate 2, (1 to 5 ton)

Orange Wires



LT410 Vertiv™ CoolPhase Row

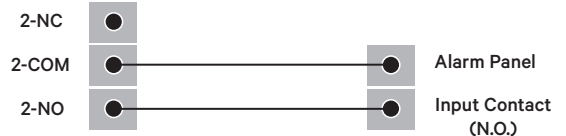
Orange Wires



NOTE: In Vertiv™ iCOM, use the "Service Options" menu to add the installed Liqui-Tect.

LT410 Vertiv™ contact monitor panel

Yellow Wires



To contact Vertiv Technical Support: visit www.Vertiv.com

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