Advanced and Innovative Solutions





LCI ™

Live Cable Identification System

The LCI $^{\text{TM}}$ is intended for energised cable identification on secondary and primary circuits. It features a dual frequency technique that eliminates false identifications. The LCI $^{\text{TM}}$ is designed to be easy to use, safe for the user and cost-effective.

ADVANTAGES

- Ø Dual frequency efficient technique
- Easy to install and operate
- Ine safest technique on the market
- Iransmission on live cables
- Ø Detection by digital processing
- Ø High-resolution detection frequencies
- Ø Single or three phase applications

LOW VOLTAGE CABLE IDENTIFICATION

The LCI-LTM load module is connected to the secondary side of the distribution transformer (120 VAC to 420 VAC).

The LCI-DTM detector module is used on insulated distribution low voltage cables (120 VAC to 420 VAC) on the secondary side of the transformer. It detects the signal coming from the LCI-LTM thus identifying the cable confirming its tags.

HIGH VOLTAGE CABLE IDENTIFICATION

The LCI-LTM load module is connected to the secondary side of the distribution transformer (120 VAC to 420 VAC).

For high voltage cable identification, the LCI-DTM detector module must be paired with the LCI-HV TM high voltage probe. The LCI-HV TM probe is designed to identify online cables up to 25kV thus enabling cable identification on the primary side of the transformer.

The LCI $^{\text{TM}}$ system can be used on single phase circuits as well as three phase circuits.

CCI™ Live Cable Identification system



LCI-D™ LCI™ Detector module

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LCI-L[™] TECHNICAL SPECIFICATIONS

Dimension	50.2 x 40.0 x 18.8 cm (19.8 x 15.8 x 7.4 inches)
Weight	6.3 kg (14 lbs)
Voltage Input	120 VAC to 420 VAC, 50-60 Hz
Current Load	8A - 10A peak
Pulse duration	100 ms
Power (continuous)	16 W to 96 W
Pulse repetition	Every 4 to 5 seconds min.
Operating temperature	-10 to 45 °C (14 to 113 °F)
Storage Temperature	-20 to 45 °C (-4 to 113 °F)
Protection (IP rating)	IP54 Top cover closedIP20 Top cover openedIP32 Top cover ajar
Relative humidity	Max. 85% RH at 40 °C, non-condensing
Altitude	Up to 2000 m.
Outdoor use	Can be used outdoor, but not exposed to liquids

LCI-D[™] TECHNICAL SPECIFICATIONS

Dimensions	9.2 x 15 x 2.5 cm (3.6 x 5.9 x 1 inches)
Rechargeable battery	Lithium-Ion, 3.7VDC, 900mA
External charger	12VDC, 1.5A
Power consumption	80 mA
Autonomy	4 hours
Charging time	5 hours
Operating temperature	-10 °C to 45 °C (14 to 113 °F)
Storage temperature	-20 °C to 45°C (-4 to 113 °F)
Charge temperature	0°C to 45°C (32 to 113°F)
IP rating	IP54
Relative humidity	Max. 85% RH at $+$ 40 °C, non-condensing
Altitude	Up to 2000 m.
Outdoor use	Can be used outdoor, but not exposed to liquids

EQUIPMENT DESCRIPTION

The LCI $^{\scriptscriptstyle \mathsf{TM}}$ system is composed of two main parts:

LCI-L[™], load module:

This instrument drains an electric current at a specific frequency that can only be detected on the cable section between the source and the transmitter's termination point. Detection is even possible on heavily loaded cables. The LCI-LTM can be connected between the phase and the neutral but preferably between phases for better results. An automatic voltage measurement allows the transmitter LCI-LTM to optimize the power drain.

LCI-DTM, detector module:

The detector module identifies the current that has been drained by the transmitter. It basically is a tone detector used for the signal tracking of the LCI-LTM emission frequency. The detection system monitors the presence or absence of the LCI-LTM frequency in order to confirm the cable identification.

STANDARD ACCESSORIES:

- LCI-L[™] Load Unit
- LCI-D[™] Detector Unit
- Battery charger
- Power leads
- Calibration certificate
- User manual

OPTIONAL ACCESSORY:

• LCI-HV[™], high voltage probe







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