Proven Advanced Technology Solutions

NEW LCI-400 Live LV Cable and Core Identification by MADE-SA

- Identifies Cables and Cores
- **Gives Phase Rotation**
- Live LV
- **Simple to Use**
- Visual and Audible Signal
- **Improves Efficiency**
- **Enhances Safety**

The **LCI-400** replaces **MADE**'s popular NADIR system. It is used to identify a live 115/220/400V, cable on which it is intended to work, and one or more of the cores in it. By correctly identifying LV cables, it reduces the risk of inadvertently opening an HV cable. The **LCI-400** is considerably reduced in size and weight and simpler to use than the NADIR.

The system transmitter is connected downstream of the point of interest to draw a complex current signal down the cable, and a hand-held receiver displays the information required to identify the cable and cores upstream by analyzing the signal. The transmitter can be connected to each phase (preferred), phase-to-phase, for example at a link-box, or phase-to-neutral, It automatically configures itself to the connection in use.



GREATLY IMPROVED DISCRIMINATION

MUCH LIGHTER

The receiver is powered from 9v batteries which allows several day's intensive use.

By operating Live, the system causes no disruption to the supply, and, since it uses a current signal, does not affect customer equipment. It is continuously rated and can be operated by one person.

The **LCI-400** is intended to aid in the rapid location of a Live, Low Voltage cable on which it is intended to work, and the cores/ phases in it. It also eliminates the risk of opening a High Voltage cable in error. It also shows the phase rotation. The phase to neutral connection option allows easy connection at a customers premises.

Advanced Technology Marketing Services—26, High Street, HASLEMERE GU27 2HW E-mail-sales@advantechms.com Tel - 07717763510 www.advantechms.com

The **LCI-400** has been developed in collaboration with the Electrical Distribution Industry and is used for the **IDENTIFICATION** of a cable in an excavation or elsewhere on a **powered** LV network under load. It will also **identify** one or more **cores** in the cable, and show the phase rotation. Even if it is not required to identify a core, doing so confirms that the correct cable has been located. The operating principle of **LCI-400** is based on the cadenced connection of a load on an LV feeder, with no disturbances for the connected loads. The receiver digitally analyses the signals detected in the cables and cores using either of the separate detection sensors. With a three-phase connection, the receiver requires no operator interpretation to show that the correct cable is detected, and also the cores in it. With a two phase or phase-to-phase connection, the signal levels are displayed to enable the user to discriminate between cables and phases. The generation and analysis of the signals used draws on MADE-SA's wide experience of signal analysis. These signal generation and analysis principles are patented.





The receiver will run for several days on new batteries.

The transmitter is connected, using the crocodile clips provided, to all three phases, downstream of the point of interest. If this is not possible, it can be connected either between any two phases, or between any phase and neutral on the feeder, downstream of the point of interest. A supply cable terminating in a U.K. mains plug is also provided for rapid connection of the transmitter in a house, for example. THE TRANSMITTER AUTOMATICALLY ADJUSTS TO THE VOLTAGE SUPPLIED.

LEDs indicate the presence of the supply (115 V. 230 V or 400 V), and the phase rotation sense.

	Transmitter	Receiver
Supply	115, 230 & 400 Volts (Self setting)	2 6LR61 dry batteries
Dimensions	410 x 340 x 205 mm.	225 x 100 x 31 mm.
Electrical Protection	IP 2X	IP 2X
Weatherproofing	IP 21	IP 64
Weight	8.1 Kg	0.45 Kg

Manufactured according to IEC 61000 (EMC), IEC 60529 (IP rating), IEC 61010 (Safety), IEC 60068 (Shock and Vibration) Qualified and approved by SERECT in accordance with the norm ST BT-840.