



## CI – Cable Identifier

**Effective, low-cost cable identification system which is easy to use**

### Benefits:

- ▶ **So easy to use**
- ▶ **Safe handling**
- ▶ **Small dimensions**

### Cable identification on de-energised cables with the CI Set

Clear identification of a cable before it is cut or fitted is a task with absolute relevance to safety. Any mistakes here can have fatal consequences for the cable fitter and cause outages for the connected customers.

The CI cable identification system has been designed for even simpler, safer working. The system consists of the current pulse generator CI TX and the receiver CI RX. This receiver is connected with a put-on 140 mm flex clamp for decoupling the identification signal.

Puls generator CI TX generates sawtooth pulses up to a peak current of 100 A and sends them to the cable being identified. This current causes an electromagnetic field around the cable which is registered with the flex converter of the receiver CI RX, automatically synchronised and displayed on the LED scale. The only possible adjustment is to vary the strength of deflection in the display.

A special software function controls and verifies all parameters of the registered pulse. The directional clamp together with parameter monitoring by the receiver warrants very safe readings regardless of any interference.

The generator unit has a battery runtime of more than 4 hours to make the system extraordinarily flexible in use.

CI TX which runs on mains power in the standard version is also available with lead cell batteries and an integrated battery charger as an option.

Work in low-voltage cable networks is increasingly being carried out under live voltage (AUL). This demands unequivocal identification of the correct cable, which naturally has to be possible without switching off the mains voltage.

### Cable identification on energised cables with the LCI Set

Pulse generator LCI TX (Live Cable Identifier) is connected by a protective conductor lead with the 115 V/230 V AC power supply. The feed transformer is subject to power withdrawal of approx.

80 A by the device at intervals of approx. 2 seconds. This results in a pulse current on the section of cable: the current is received by the reading clamp and is thus used for reliable identification of this section of cable (not suitable for IT networks!). This guarantees correct connection to safety sockets. A safety clamp with integrated fuse is available for coupling to public distribution networks. The small dimensions of both pulse generators permit troublefree use in switchboards.

### Options

- ▶ 250 mm flex clamp
- ▶ Contact Sensor PAS CI



### Technical data

#### Transmitter for identification on de-energised cables CI TX (fig. 1)

Pulse voltage	55 VDC
Pulse current	max. 100 A
Pulse sequence	30 / min
Pulse width	72 ms
Power supply:	100 ... 240 ; 50 / 60 Hz; 12 VDC battery
Runtime	4 h in battery mode
Recharging time	6 h
Weight	1.6 kg
Dimensions	201 x 120 x 80 mm

#### Universal receiver CI RX (fig. 2)

Sensor	140 mm flex clamp
Amplifier setting	10 steps; 3 ... 24 dB
Power supply	2 x 1.5 V AA batteries
Runtime	> 50 h
Weight	0.4 kg
Dimensions	150 x 65 x 35 mm

#### Transmitter for identification on energised cables LCI TX (fig. 3)

Operating voltage	100 ... 240 VAC; 50 / 60 Hz
Pulse current	80 A
Pulse sequence	15 / min
Pulse width	1.5 ms
Weight	0.5 kg
Dimension	151 x 101 x 60 mm
Protection	IP 54
Operating temperature	-10 °C ... +60 °C

### Scope of delivery

#### Basic CI Set for identification on de-energised cables

- ▶ Transmitter CI TX
- ▶ Receiver CI RX with 140 mm flex clamp
- ▶ Supplied with all necessary connection cables, mains leads and clamps
- ▶ Case

#### Basic LCI Set for identification on energised cables

- ▶ Transmitter LCI TX
- ▶ Receiver CI RX with 140 mm flex clamp
- ▶ Supplied with all necessary connection cables, mains leads and clamps
- ▶ Case

#### Complete CI and LCI Set

- ▶ Transmitter CI TX and LCI TX
- ▶ Receiver CI RX with 140 mm flex clamp
- ▶ Supplied with all necessary connection cables, mains leads and clamps
- ▶ Case

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