



CI - Cable Identifier

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

Benefits

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

Description of functions

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 permanently connected with a 120 mm flex converter 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 calibrated 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 50 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.

Description of the procedure

Pulse generator LCI TX is connected by a protective conductor lead with the 115V/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.



Technical data	
CI TX	
Pulse voltage	55 VDC
Pulse current	max. 100 A
Pulse sequence	30 / min
Pulse width	72 ms
Power supply:	100-240 VAC 50/60 Hz (optional) 12VDC battery
Runtime	4h in battery mode
Recharging time	6h
Weight	0.8 kg (w/o battery) 1.6 kg (with battery)
Dimensions	201 x 120 x 80 mm
CI RX	
Sensor	120mm flex converter
Amplifier setting	10 steps 3dB to 24 dB
Power supply	2 x 1.5V AA batteries
Runtime	>50 h
Weight	0.4 kg
Dimensions	150 x 65 x 35 mm
LCI TX	
Operating voltage	100-240 VAC 50/60Hz
Pulse current	80 A
Pulse sequence	15 / min
Pulse width	1.5 ms
Weight	0.5 kg
Dimensions	151 x 101 x 60 mm
Protection	IP 54
Operating temperature	-10 °C ... +60 °C

Scope of supply

Basic Set CI

Transmitter CI TX

Receiver CI RX with 120 mm flex converter

Supplied with all necessary connection cables, mains leads and clamps

Basic Set LCI

Transmitter LCI TX

Receiver CI RX with 120 mm flex converter

Supplied with all necessary connection cables, mains leads and clamps

Complete Set CI and LCI

Transmitter CI TX and LCI TX

Receiver CI RX with 120 mm flex converter

Supplied with all necessary connection cables, mains leads and clamps

Options

Integrated rechargeable lead cell battery 12 VDC for CI TX
Case

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