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Datasheet

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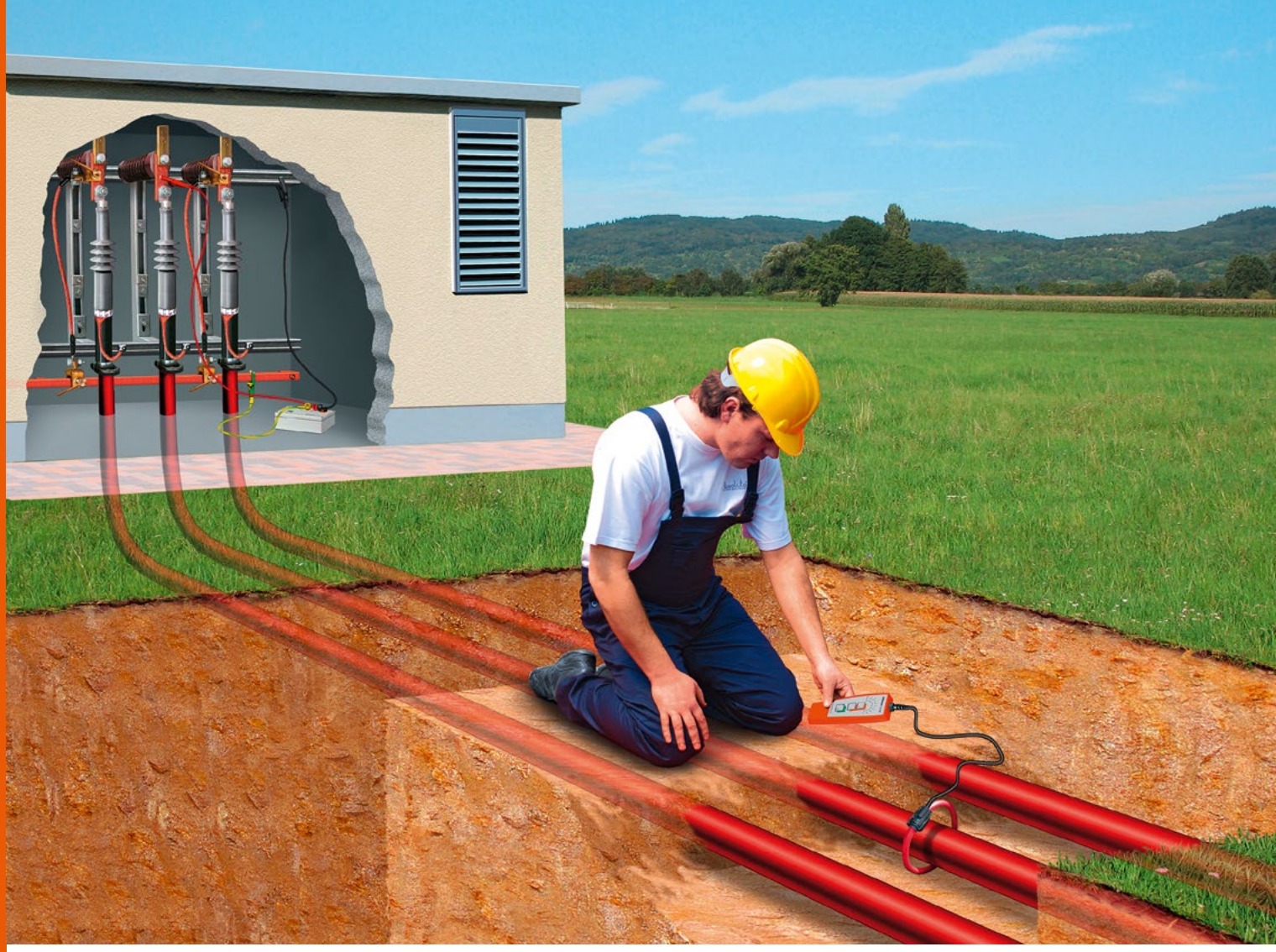

Cable Identifier

- Inexpensive cable selection system
- Easy to operate
- Safe handling
- Very small

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Easier and safer working

Clear identification of a cable before it is cut or fitted is a task with absolute relevance to safety. Any mistakes here can result in fatal consequences for the cable fitter and may cause outages for the connected customers. The CI cable identification system has been developed for even easier and safer working.

Functional description

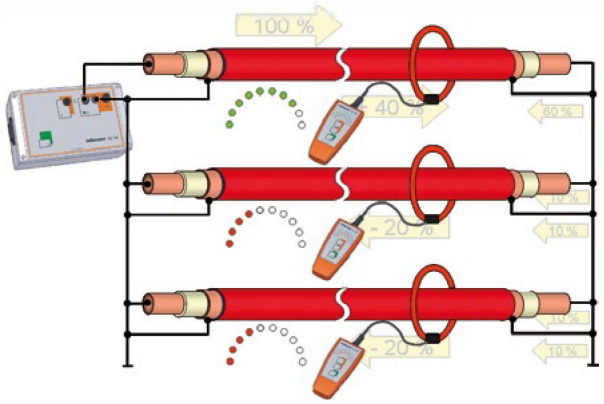
The system consists of the current impulse ge nerator and the receiver CI RX. This receiver is connected by a 230 mm (option 120 mm) flex clamp for decoupling the identification signal. The Pulse generator CI TX generates single sawtooth pulses with a peak cur - rent up to 100 A and transmits them into the cable being identified. This current flow of these impulses causes an electromagnetic field with a defined pola- rity around the cable which is received with the flex coupler of the receiver CI RX, automatically syn - chronised and displayed by the LED scale. The only possible adjustment is the adjustment of the display sensitivity.

A special software function controls and verifies all parameters of the received pulse.

Evaluated are the following parameters:

- Impulse shape
- Polarity
- Amplitude
- Frequency (2 s Intervall)

The directional clamp in combination with the pa - rameter monitoring by the receiver provides a safe selection regardless of any interference.



The user must only verify the display. This means, that generally, only one conductor or cable has the correct polarity while all other cables have the oppo - site polarity.

Deviations from these requirements must lead to a control of the complete setup.

Selection on de-energised cables with the CI Set

The CI TX in an active, internall powered gene rator, designed for the Selection on de-energised cables. This mains or rechargeable battery powered unit ge - nerates active impulses up to 100 A. The operating time of up to 4 hours permits a very flexible use.

Low-voltage applications

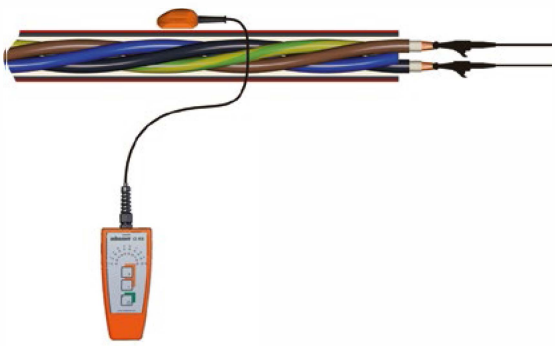
Work in low-voltage cable networks is increasin gly being carried out under live voltage. This demands a reliable identification of the correct cable, which naturally has to be possible without switching off the mains voltage.

Identification on energised cables with the LCI Set

The impulse generator LCI TX is connected by a pro- tective conductor lead with the 115 V/230 V AC sup - ply. The feeding transformer is in 2 sec, intervals loa - ded with current pulses of approx. 80 A. This results in a pulsed current on the section of cable which is received by the flex clamp and is thus used for relia- ble identification of this section of cable (not suitable for IT networks!). Two LED's indicate the correct con - nection polarity. This guarantees correct connection to safety sockets.

Selection between two phases, and in TT and IT systems

For the selection between phases and with the twi- sted field method there is the LCI TX 440, which can be connected directly between two phases of a low voltage distribution. The selection generator LCI TX 440 is connected between two phases up to 440 V. Requirement is a current flow through the feeding transformer.

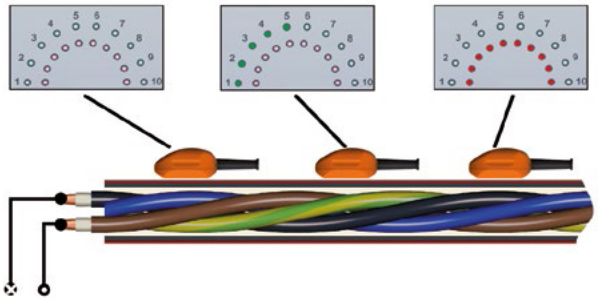


With the twisted field sensor TFS CI, the required phase is then directly detected through the outer sheath.

For an even safer selection, this system provides the possibility to use the Flex Coupler to select the correct cable first and then to confirm this additionally by using the twist field sensor to verify the specific phase in this cable.

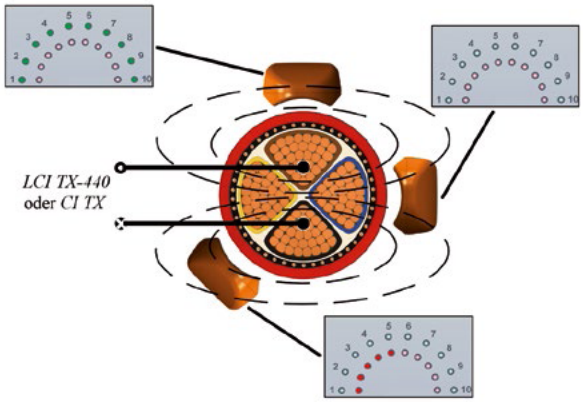
In this case the cable can be opened at the outer sheath, and the phase can be exposed before cutting or working on it.

Especially for unmarked phases as they exist in PILC or similar, this procedure is very helpful.



Advantage of the twist field method
with current impulse

In opposition to a conventional twist field method with audio frequency, the use of the TFS CI in combination with the polarised selection impulse has a significant higher selectivity. This technology has a very clear, narrow limited maximum on top of the phase to be selected, as well as the same clear negative maximum on the return line. Unused conductors will not produce any signal.



This twist field selection works as well with the LCI TX (Connection L-N).

For the connection on open LV distributions the system has standard safety clips with integrated fuse acc. to CAT IV / 600 V.

For a direct connection a NH fuses there is an optional NH test adapter for the insertion on top of NH fuses. This enables a mechanically solid and high current capable connection. This adapter is fused with 6 A, and can be directly used at the LCI TX 440 connector or by a screw-in adapter for the fused clip base, to be used with the LCI TX.

The small dimension of the selection generators permits an easy storing inside road pillars.

LCI TX 440

TFS CI

Cable Identifier

Technical data

Transmitter for identification on de-energised cables 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 12 V rechargeable battery
Operating time	4 h on rechargeable Battery
Charging time	6 h
Weight	1.6 kg
Dimension	201 x 120 x 80 mm
Protection class	IP 54
Operating temperature	-10 °C … +60 °C

Universal-Receiver CI RX	
Sensor	230 mm Flex-Coupler
Amplifier setting	10 steps; 3 … 24 dB
Power supply	2 x 1.5 V AA batteries
Operating time	> 50 h
Weight	0.4 kg
Dimension	150 x 65 x 35 mm
Protection class	IP 54
Operating temperature	-10 °C … +60 °C

Transmitter for identification on energised cables 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
Dimension	151 x 101 x 60 mm
Protection class	IP 54
Operating temperature	-10 °C … +60 °C CAT IV / 300 V

Transmitter for phase to phase identification on energised cables LCI TX 440	
Operating voltage	240 … 440 VAC; 50 / 60Hz
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 class	IP 54
Operating temperature	-10 °C … +60 °C CAT IV / 600 V

Scope of delivery

Basic CI set for identification on de-energised cables

- Transmitter CI TX
- Receiver CI RX with 230 mm flex clamp
- Supplied with all necessary connection cables, mains leads, clips and clamps
- Case

Basic LCI set for identification on energised cables

- Transmitter LCI TX
- Receiver CI RX with 230 mm flex clamp
- Supplied with all necessary connection cables, mains leads, clips and clamps
- Case

Complete CI and LCI Set

- Transmitter CI TX & LCI TX
- Receiver CI RX with 230 mm flex clamp
- Supplied with all necessary connection cables, mains leads, clips and clamps
- Case

Optional accessories

- 120 mm Flex-Coupler
- Contact sensor PAS CI
- Twisted field sensor TFS CI
- NH test adapter
- ISO 9001: 2008
- LCI TX 440 for selection between phases

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