LINE TRACER - Universal wire and cable locator

KE2093

KURTH ELECTRONIC

Purposely designed to be used on
- electrical installations,
- various cable networks,
- pipe installations and
- telecommunications

Transmitter T10K

Receiver R10K

Applications
- Tracing cables in walls, ceilings, floor and ground.
- Tracing live or voltage free cables.
- Locating cable interruptions and short-circuits in cables.
- Locating concealed sockets and distribution boxes.
- Locating fuses and assignment to circuits.
- Determining an individual wire in a bundle of wires.
- Tracing pipe installations and other conductive loops.

Key features
- Detection depth up to 2 m can be achieved.
- Works on both, energized and non-energized systems.
- The highly sensitive Receiver R10K detects the injected signal around the measured line or object.
- Three levels of sensitivity adjustment: low, middle and high. Each level can be additionally precisely adjusted.
- Dual, bar-graph and buzzer indicator offers easy indication in dark and noisy environment.

- Method requires a use of Special Selective Tip Probe, supplied in a standard set.
- Pinpoint fuse determination is possible without removing the plastic cover of the switch box.

Determining individual wires in the telecommunication environment

- Locating method requires a use of a test tip, supplied in a standard set.
- High accuracy of the method enables pinpoint determination of a traced conductor.

Determining individual wires and fuses in the switch box

- Tracing method uses A1074 current clamps.
- High accuracy of the method enables pin-point determination of a wire or a fuse.

Tracing buried cables in the ground

- With various arrangements a detection depth on energized cables between 40 to 200 cm can be reached.
- Detection depth up to 40 cm can be obtained on non-energized lines.

Tracing hidden paths

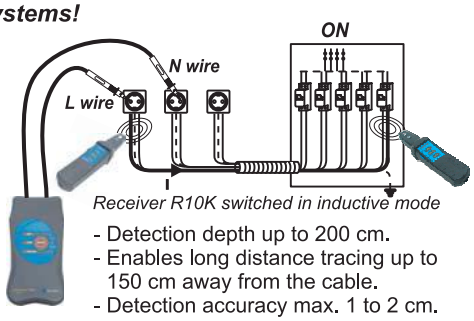
- With various arrangements a detection depth on energized lines between 40 to 200 cm can be reached.
- Detection depth up to 40 cm can be obtained on non-energized lines.
- Depending on the cable depth a detection accuracy up to 1 cm can be reached.
- Two probes (standard, selective) can be chosen.

KURTH ELECTRONIC GmbH • Mühleweg 11 • D-72800 Eningen u.A. • GERMANY
Tel. +49(0)7121-97 55-0 • Fax +49(0)7121-97 55 56
www.kurthelectronic.de • e-mail: sales@kurthelectronic.de

Typical connection schemes

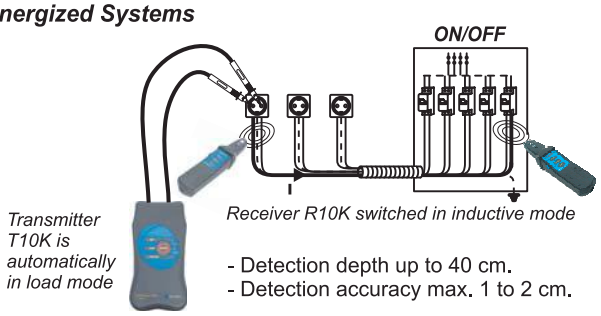
Tracing Cables in Walls, Ceilings, Floor and Ground on Energized Systems!

NEW!



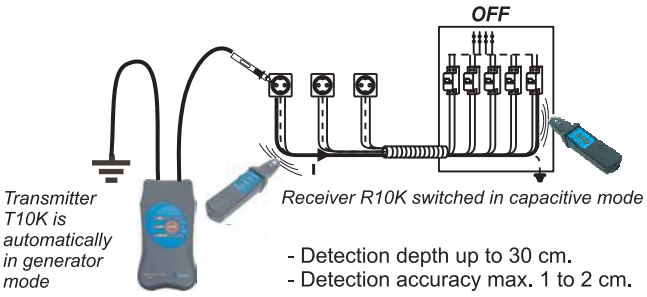
- Detection depth up to 200 cm.
- Enables long distance tracing up to 150 cm away from the cable.
- Detection accuracy max. 1 to 2 cm.

Tracing Cables in Walls, Ceilings, Floor and Ground on Energized Systems



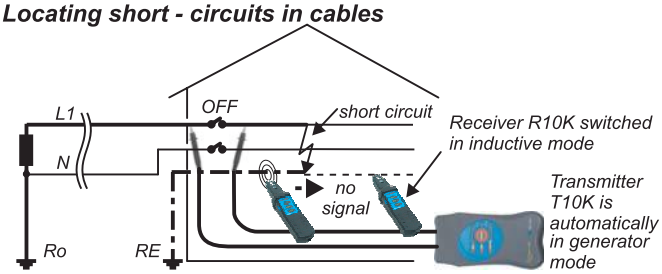
- Detection depth up to 40 cm.
- Detection accuracy max. 1 to 2 cm.

Tracing Cables in Walls, Ceilings, Floor and Ground on Non - Energized Systems



- Detection depth up to 30 cm.
- Detection accuracy max. 1 to 2 cm.

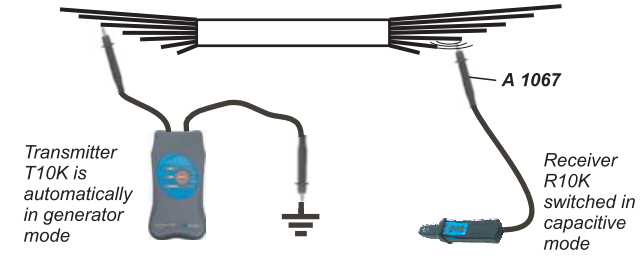
Locating short - circuits in cables



- Detection depth up to 5 cm.
- Detection accuracy max. 2 to 5 cm. Depends on the cable depth.

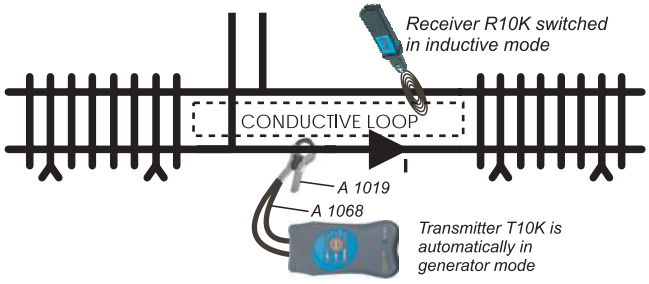
Attention: Load current of the Transmitter is 1 A!
Due to safety reasons the R_E has to be under 50 Ω!

Determining individual wires, fuses, connectors, with special Test Tip Probe



- Detection depth up to 30 cm.
- Detection accuracy max. 1 to 2 cm.

Current clamp for current signal injection



- Recommended method for tracing metal pipe installations.
- Detection depth up to 10 cm
- Current clamps are required for performing measurements.

Technical Specifications

Transmitter T10K

Batteries	4 x AA size, (1.5 V)
Low battery indicator	yes
Operating temperature	0–40 °C
Operating frequency	10.6 kHz modulated with 4 Hz
Storage temperature	-30–60 °C
Mass	300 g
Dimensions	80 mm x 50 mm x 150 mm

Receiver R10K

Battery	1 x PP3 size (9 V)
Low batery indicator	yes
Operating temperature	0–40 °C
Storage temperature	-30–60 °C
Mass	150 g
Dimensions	45 mm x 45 mm x 210 mm
Selectivity	input band-pass filter 10.6 KHz
Indicators	audio: piezoelectric speaker (70 db) visual: 10 level LED bargraph-stile indicator
Sensitivity	LOW, MIDDLE, HIGH level – keys, potentiometer for fine adjustment of signal gain

Dealer:

Standard set — Order No. 0.49570

- Transmitter T10K
- Receiver R10K
- Special Selective Tip Probe
- Test lead 1.5 m for R10K, 2 pcs
- Test lead 1.5 m for R10K with built-in resistor
- Test tip (black), 2 pcs
- Alligator clip, 2 pcs
- Small soft carrying bag
- Instruction manual
- Declaration of conformity
- Production verification data
- Declaration of warranty

Optional Accessories — Order No.:

A 1019, Current clamp 1000 A -1A, d = 52 mm

A 1068, Connection cable for clamp

A 1069, Mini current clamp 100 A - 1 V, d = 15 mm

A 1074, Mini current clamp 200 A - 0.2 A, d = 15 mm

KURTH ELECTRONIC GmbH • Mühleweg 11 • D-72800 Eningen u.A. • GERMANY
Tel. +49(0)7121-97 55-0 • Fax +49(0)7121-97 55 56
www.kurthelectronic.de • e-mail: sales@kurthelectronic.de