SONEL LKZ-720

pictorial instructions

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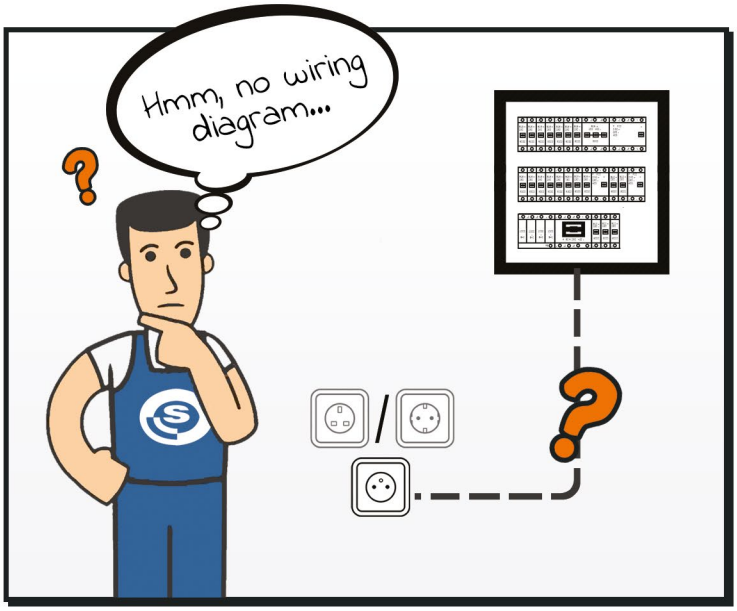
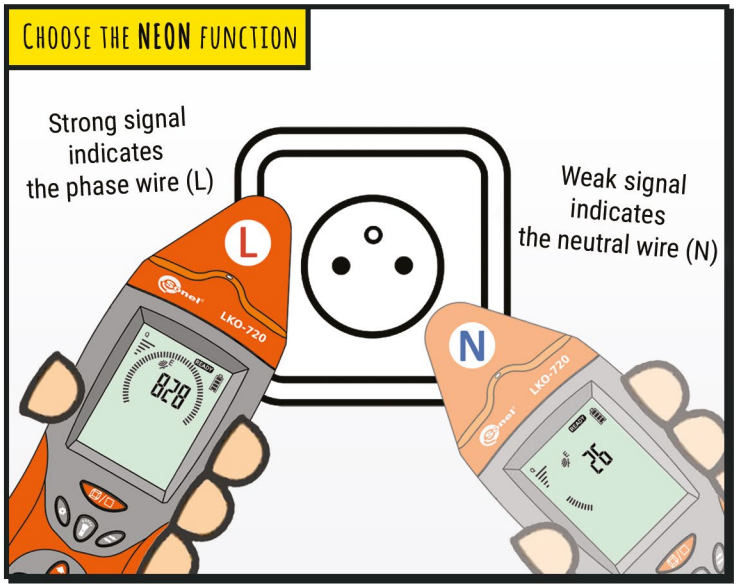
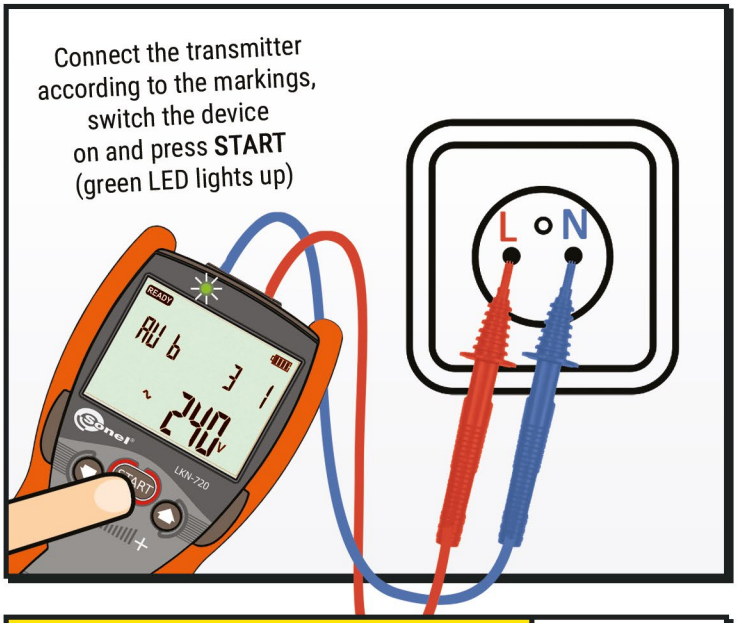
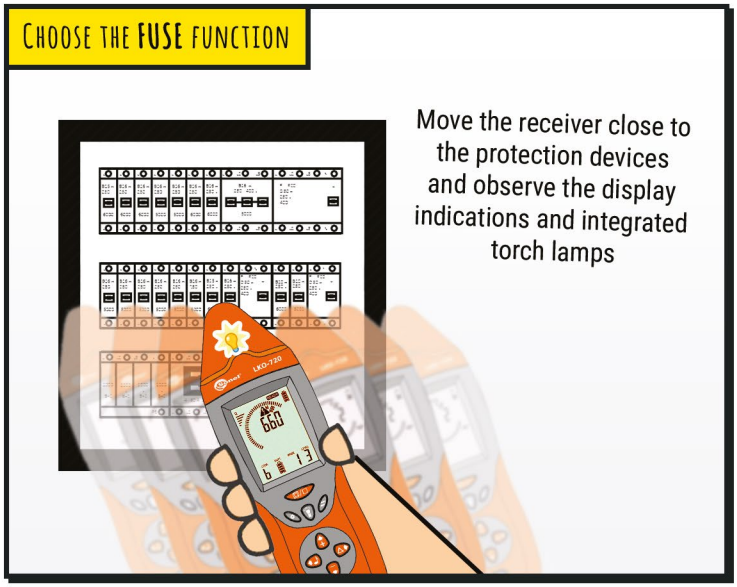
IDENTIFICATION OF DISTRIBUTION BOARD FUSES

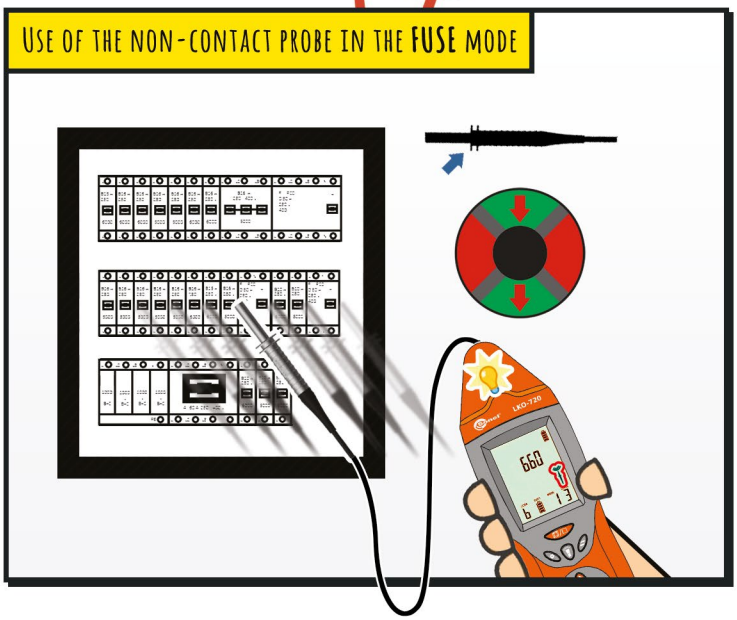
with the SONEL LKZ-720 Cable Locator

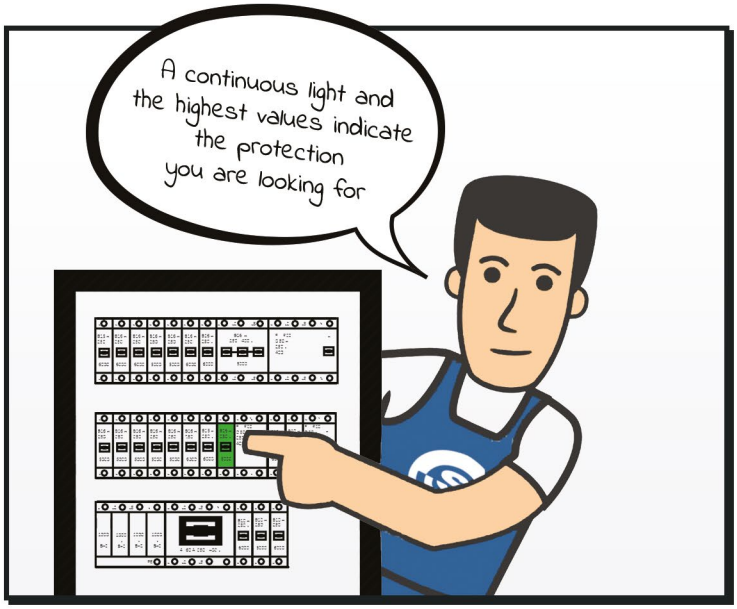






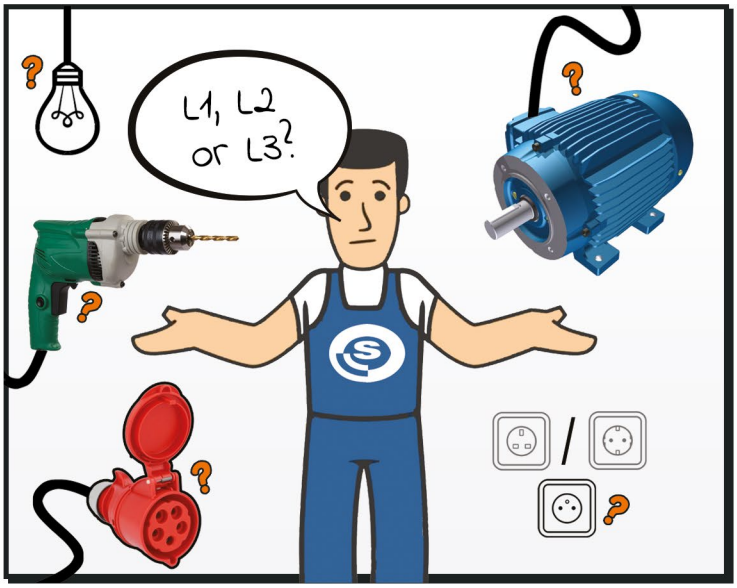


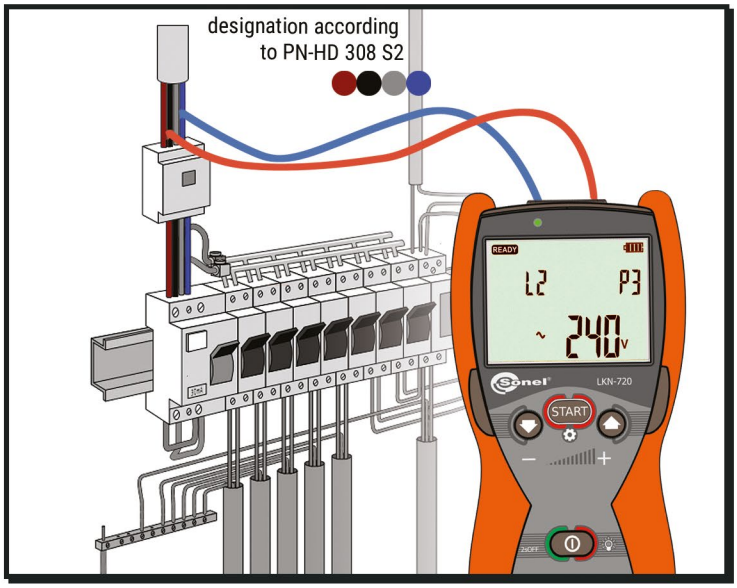




PHASE SEQUENCE AND PHASE IDENTIFICATION

with the SONEL LKZ-720 Cable Locator

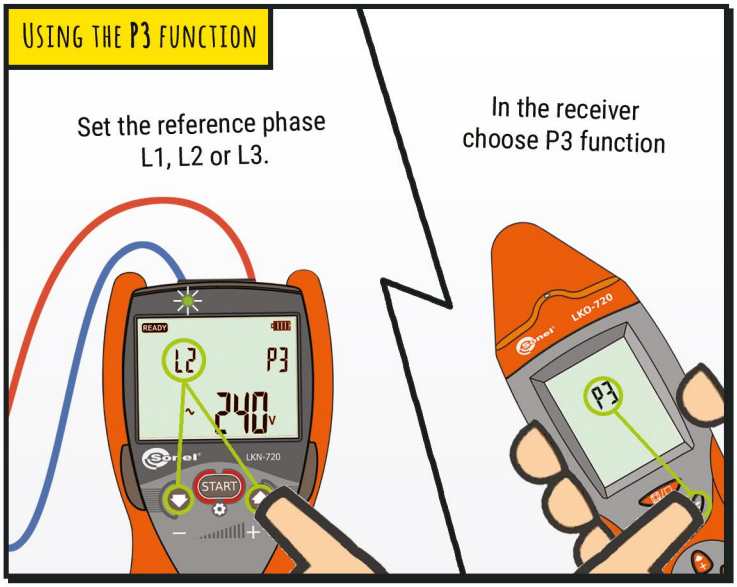




USING THE P3 FUNCTION

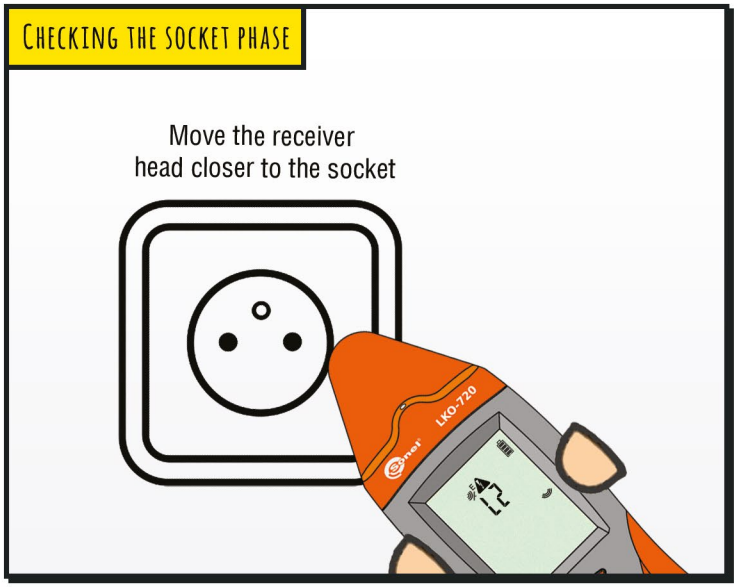
Set the reference phase
L1, L2 or L3.

In the receiver
choose P3 function

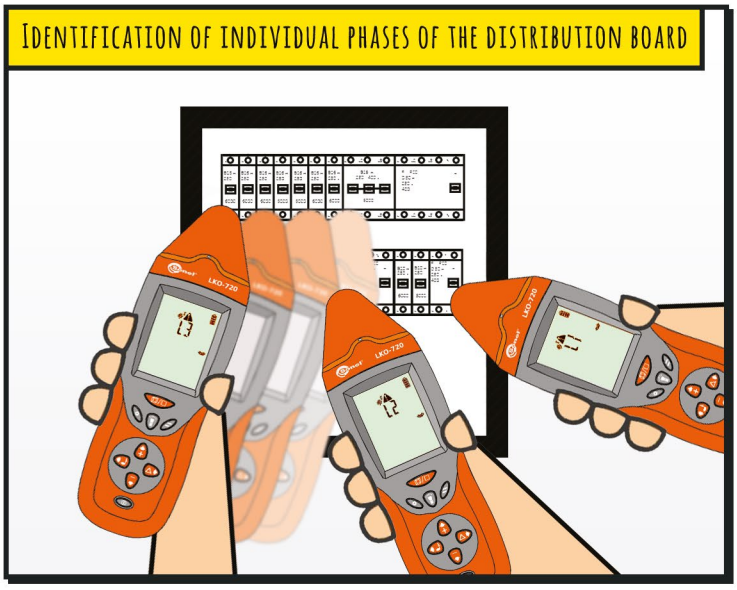


CHECKING THE SOCKET PHASE

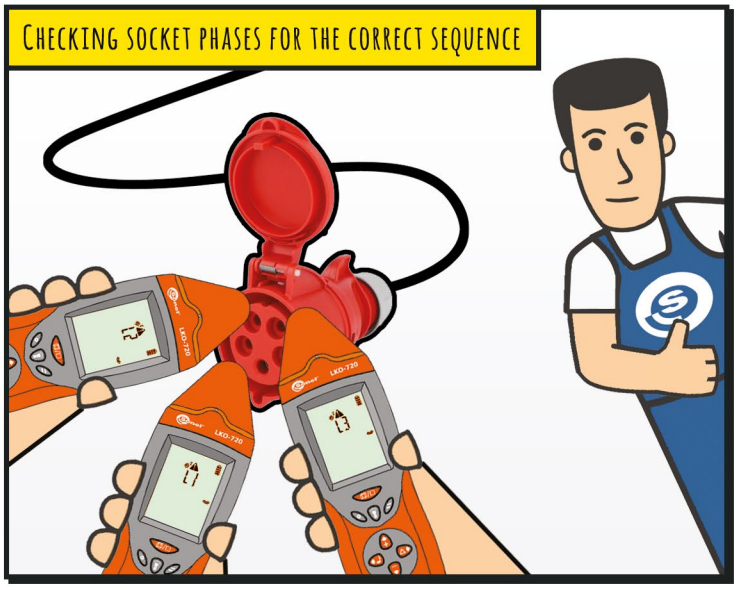
Move the receiver
head closer to the socket



IDENTIFICATION OF INDIVIDUAL PHASES OF THE DISTRIBUTION BOARD

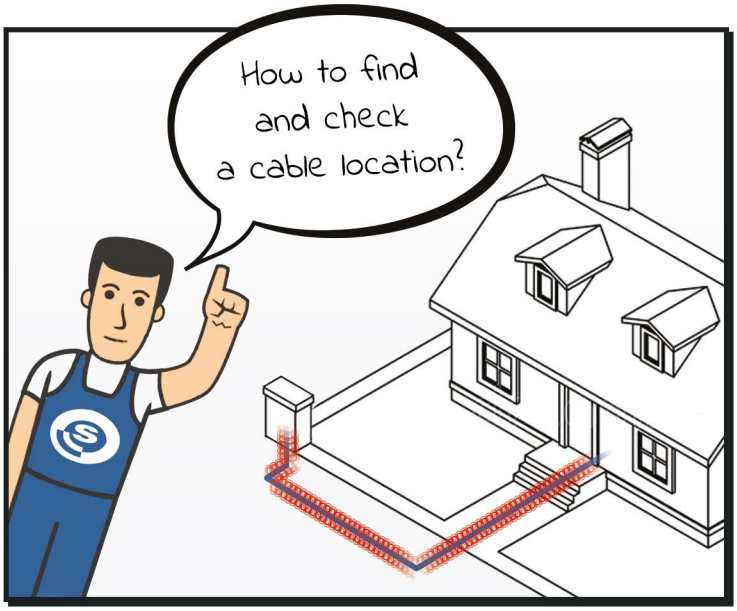


CHECKING SOCKET PHASES FOR THE CORRECT SEQUENCE



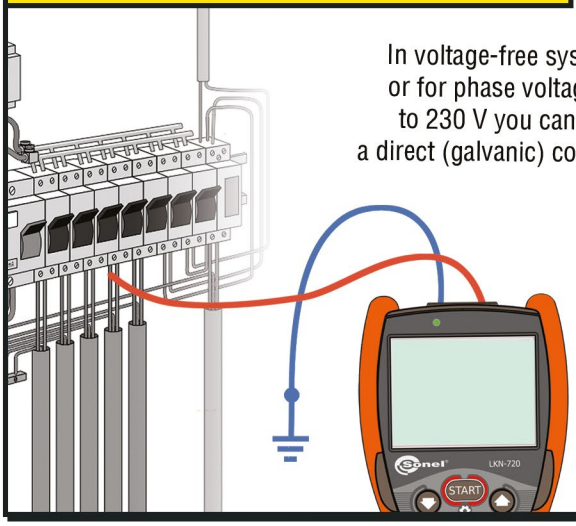
How to trace a cable

with SONEL LKZ-720 Cable Locator and N-1 transmitting clamps

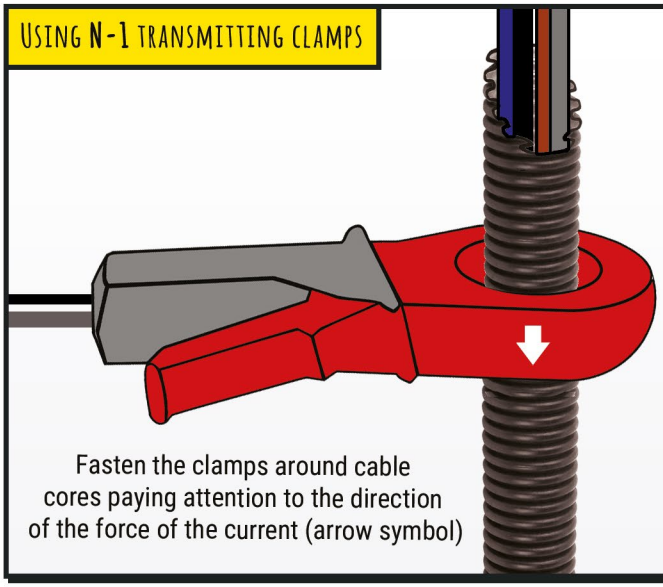


Connecting the transmitter in the iANt function

In voltage-free systems
or for phase voltage up
to 230 V you can use
a direct (galvanic) connection



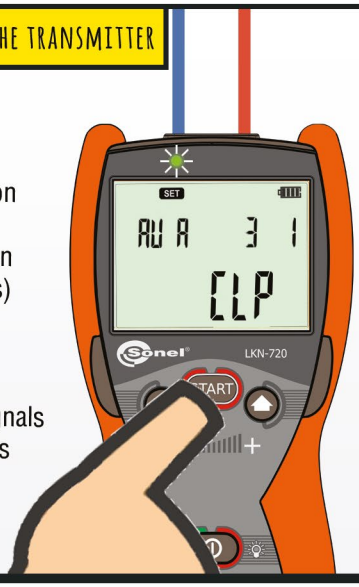
Using N-1 transmitting clamps



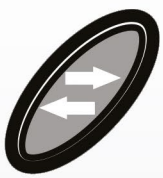
Fasten the clamps around cable
cores paying attention to the direction
of the force of the current (arrow symbol)

Using the CLP function in the transmitter

1. Switch the transmitter on
2. Press and hold **START**
3. Choose the **CLP** function
   (for transmitting clamps)
4. Confirm with
   the **START** button
5. You can also adjust
   the power of emitted signals
   with the selection arrows
6. Start transmission
   by pressing **START**



Using the CAbl function in the receiver

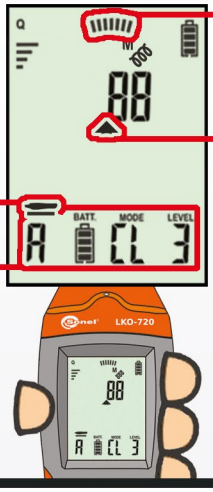


Choose the **CAbl** function
in the receiver by using
the selection button

Receiver indications

Indicator of the
receiver location
with respect
to the object
being localized

Setting
received
from the
transmitter

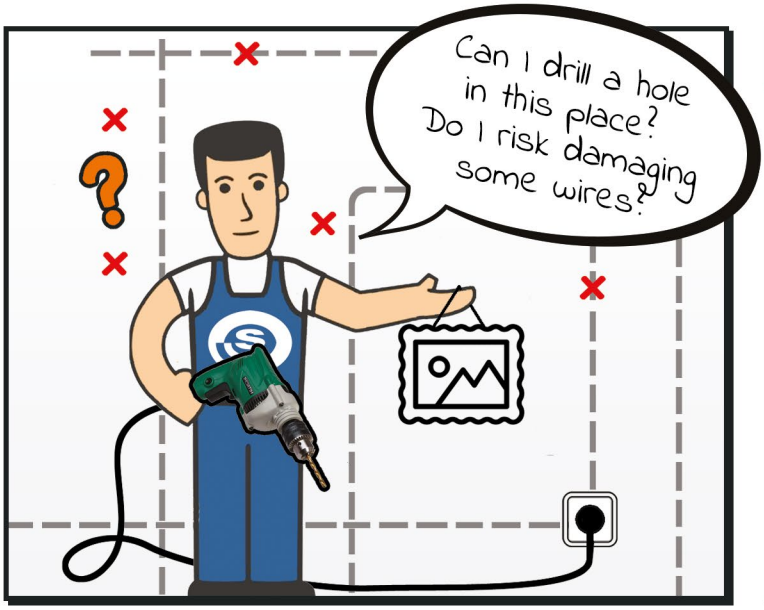


Swings of the
bar graph indicate
the cable location

Direction of
the force of the
current as indicated
by the arrow
on the clamps

CABLE ROUTE TRACING

Locating 50/60 Hz electric field



USING THE **NEON** FUNCTION

Choose the **NEON** function with the choose function button

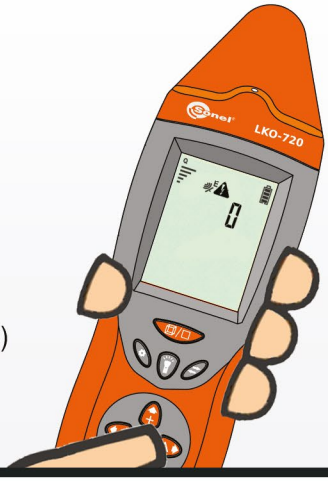
SCANNING THE WORKING AREA

approx. 30 cm

High indicator value for setting **ABS - Absolute**

MEASURING SENSITIVITY ADJUSTMENT

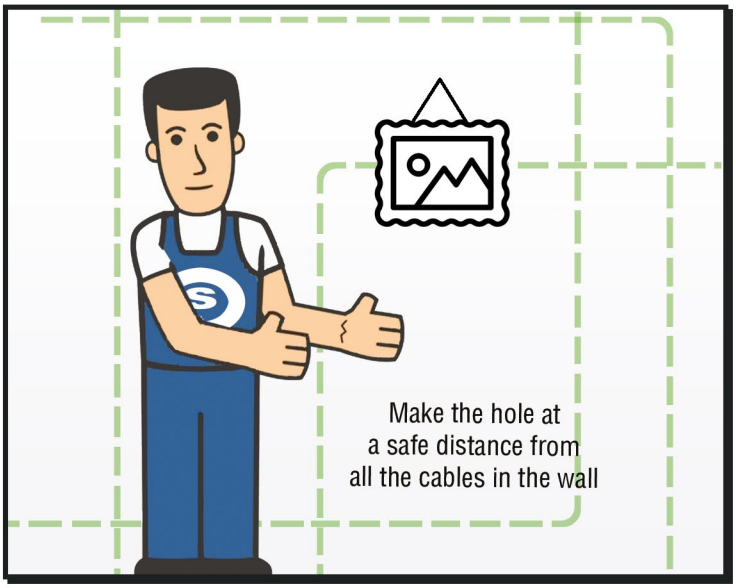
By using the Δ button change the signal strength value in relation to the reference point (**ABS** to **REL**)



LOCATION OF A 50/60 HZ CABLE

Locate the cable accurately with the **REL** function

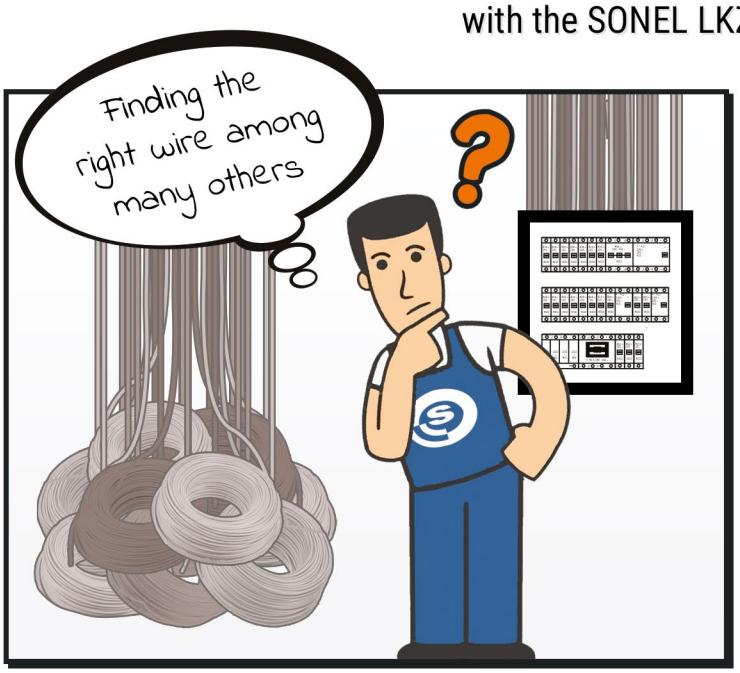
< 15 cm



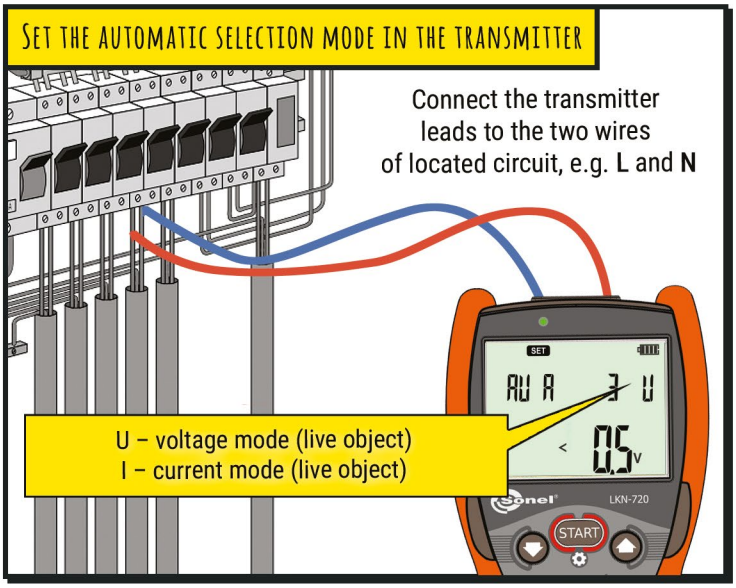
Make the hole at a safe distance from all the cables in the wall

LOCATION OF DEAD AND LIVE WIRES

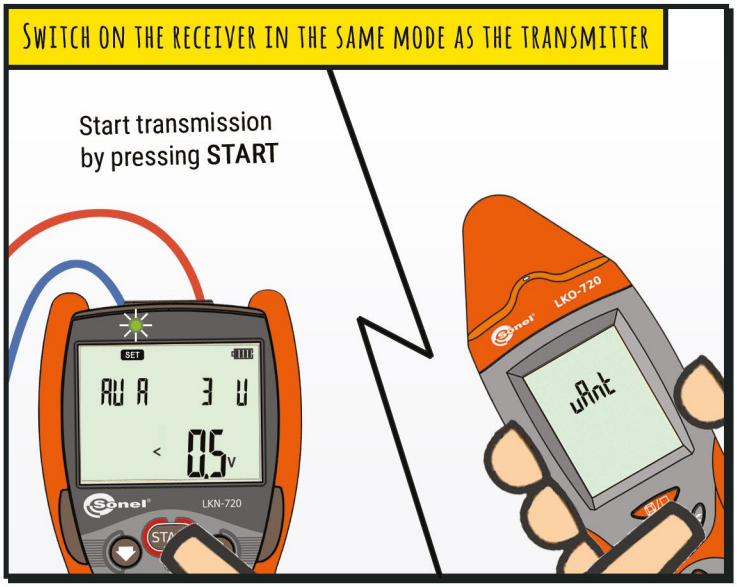
with the SONEL LKZ-720 Cable Locator



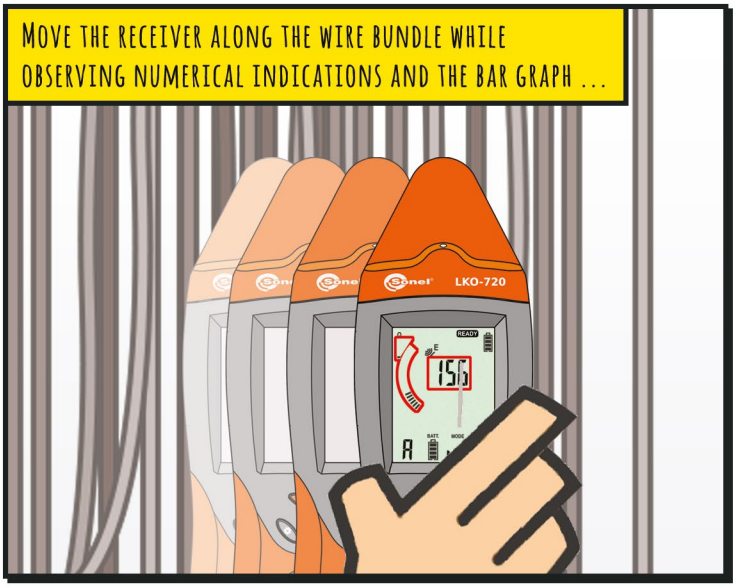
SET THE AUTOMATIC SELECTION MODE IN THE TRANSMITTER



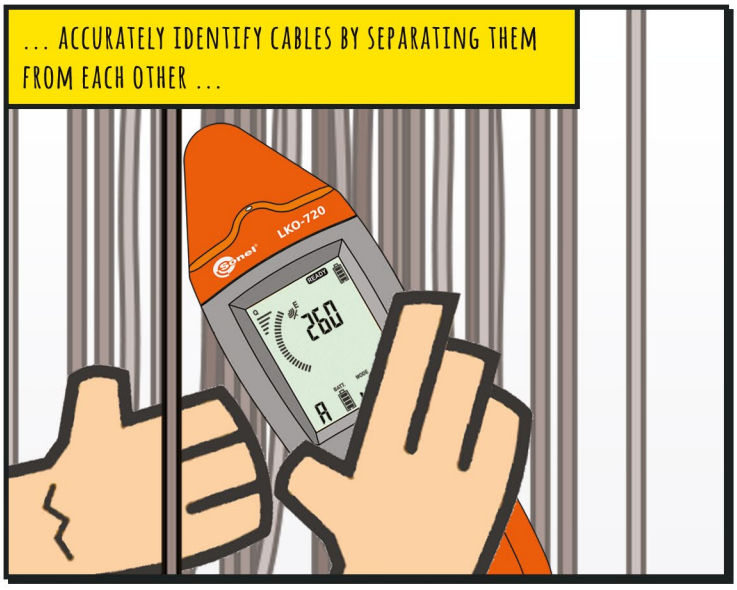
SWITCH ON THE RECEIVER IN THE SAME MODE AS THE TRANSMITTER



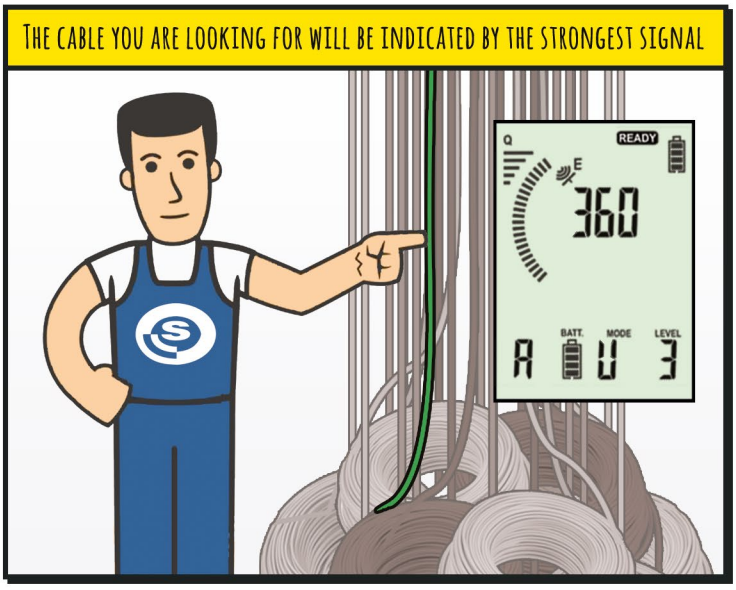
MOVE THE RECEIVER ALONG THE WIRE BUNDLE WHILE OBSERVING NUMERICAL INDICATIONS AND THE BAR GRAPH ...



... ACCURATELY IDENTIFY CABLES BY SEPARATING THEM FROM EACH OTHER ...

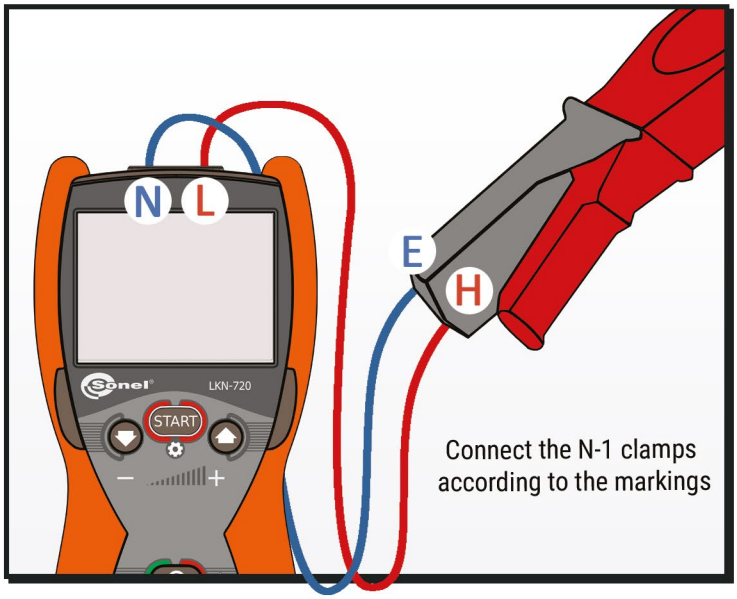


THE CABLE YOU ARE LOOKING FOR WILL BE INDICATED BY THE STRONGEST SIGNAL



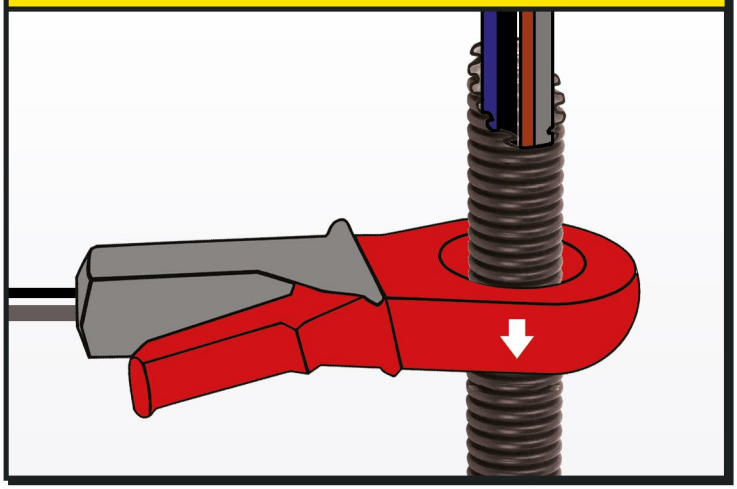
IDENTIFICATION OF LIVE CABLES

by using the SONEL LKZ-720 locator and transmitting clamps



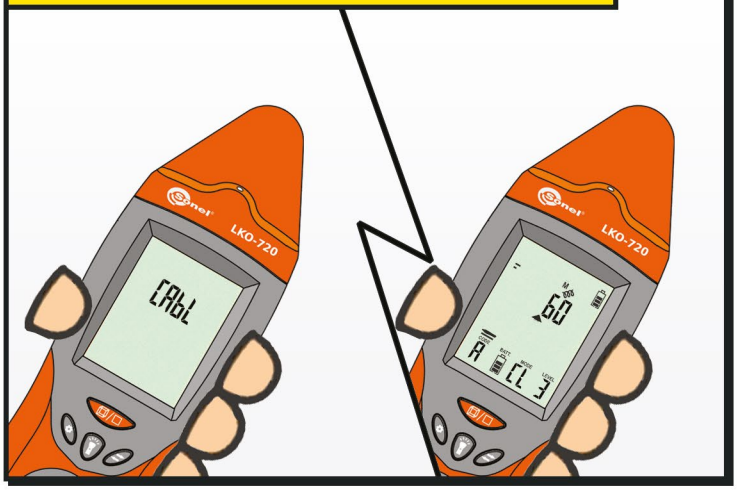
Connect the N-1 clamps according to the markings

FASTEN THE CLAMPS ON THE OBJECT, FORCING THE DIRECTION OF THE CURRENT FLOW FROM THE TRANSMITTER

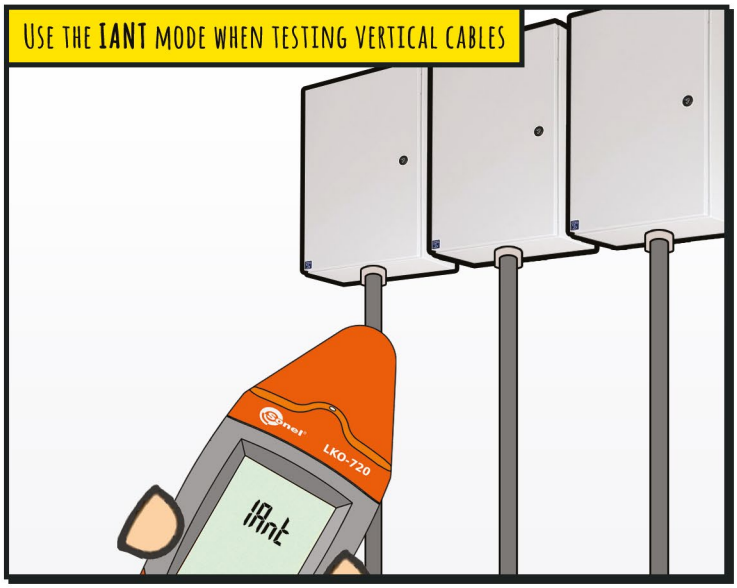


Choose the **CLP** function in the transmitter and press **START**

AGREEMENT OF THE CABLE LOCATION WITH THE MAP CAN BE VERIFIED BY USING THE RECEIVER IN THE **CABL-3D** MODE

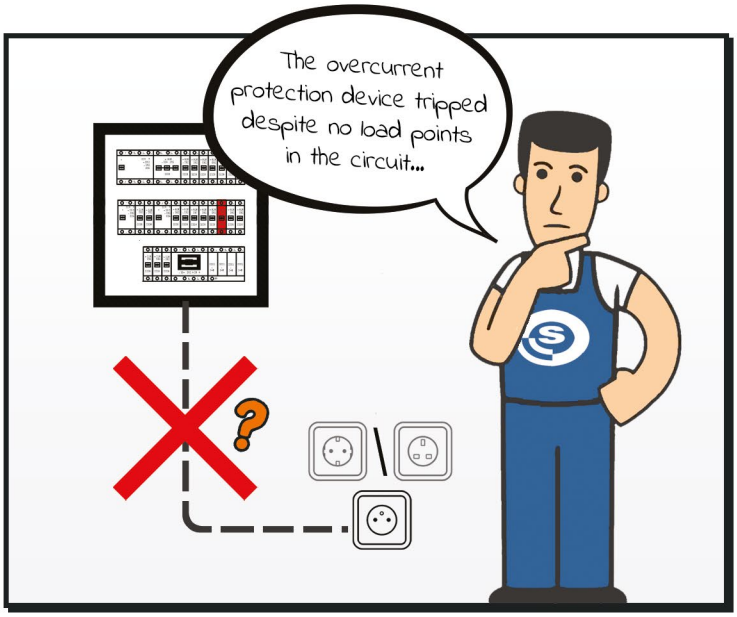


USE THE **IANT** MODE WHEN TESTING VERTICAL CABLES

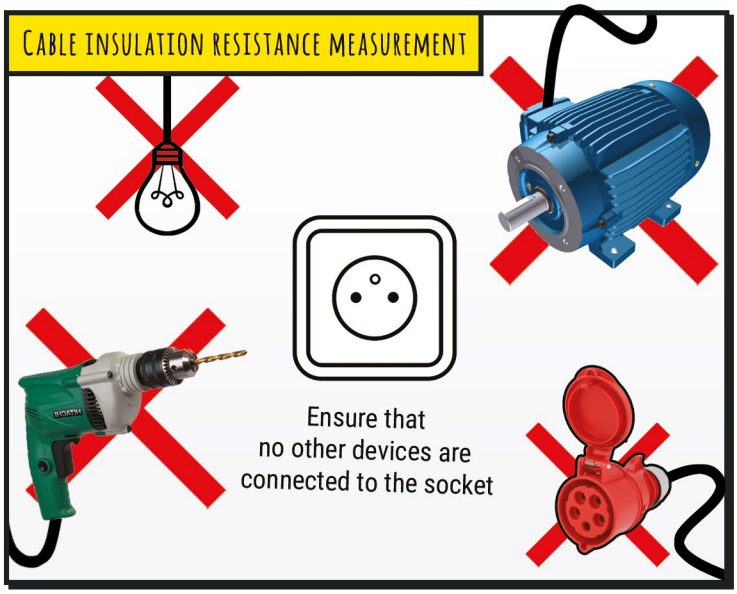


How to find a short circuit between wires

with the SONEL LKZ-720 Cable Locator



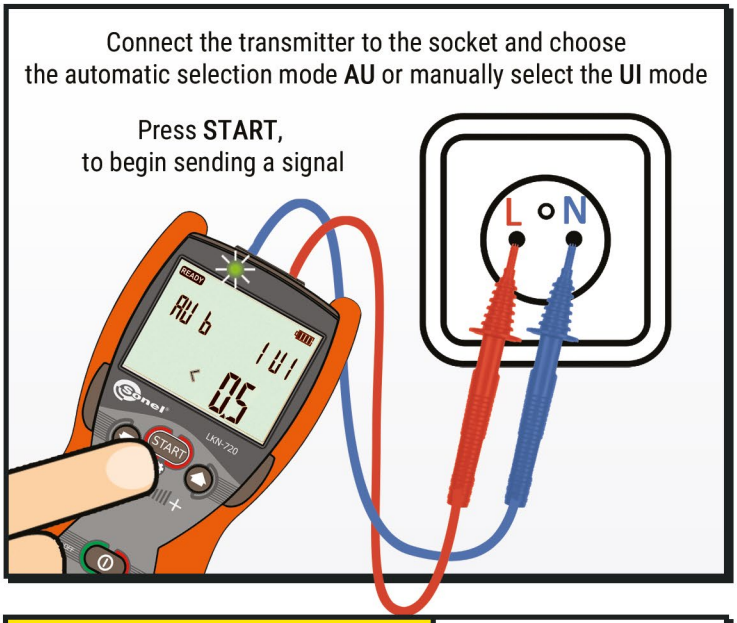
Cable insulation resistance measurement



Ensure that no other devices are connected to the socket

Connect the transmitter to the socket and choose the automatic selection mode **AU** or manually select the **UI** mode

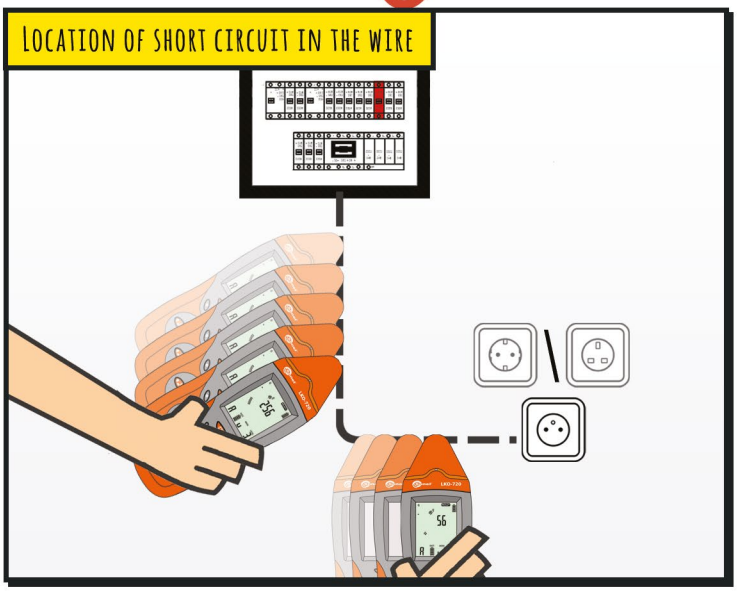
Press **START**, to begin sending a signal

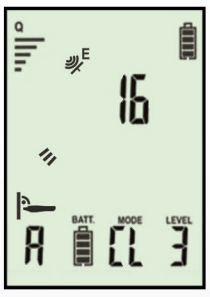


Using IANT function

Use the selection button to set the **IAnt** function in the receiver

Location of short circuit in the wire

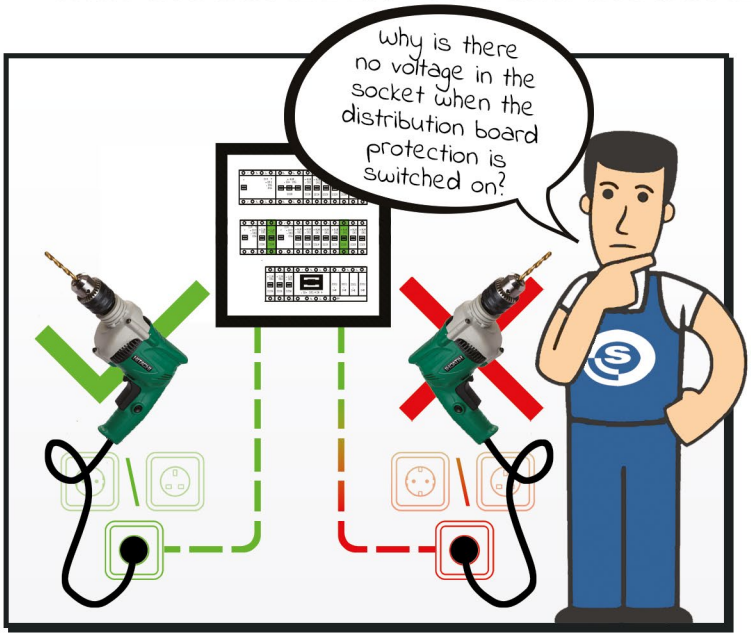




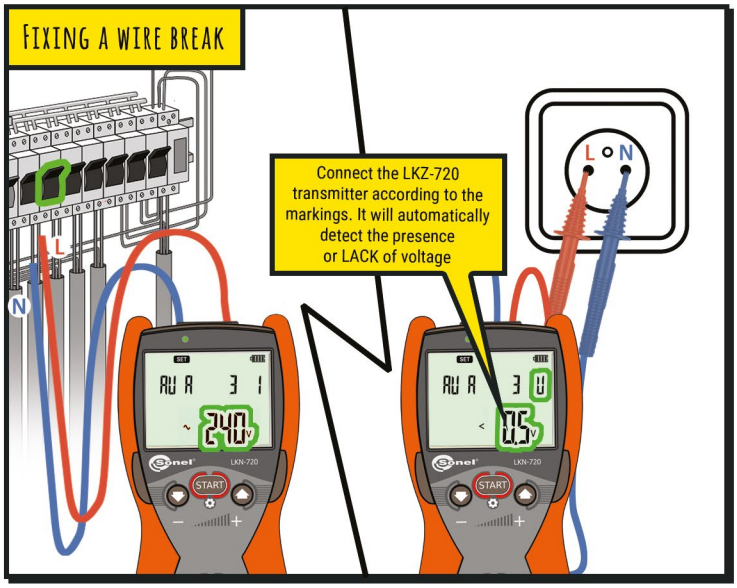
After passing the possible short circuit location, the signal strength displayed by the receiver is significantly weaker.

How to find a wire break

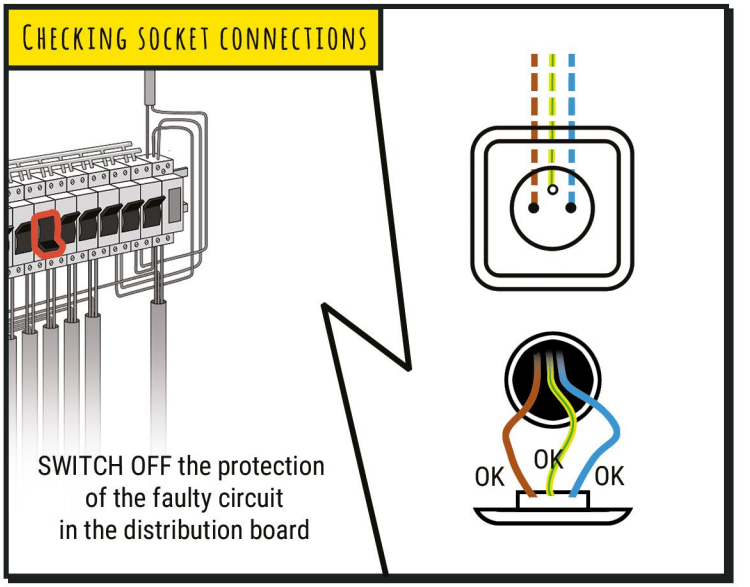
with the SONEL LKZ-720 and the SONEL MIC-30 Insulation Resistance Meter



Fixing a wire break

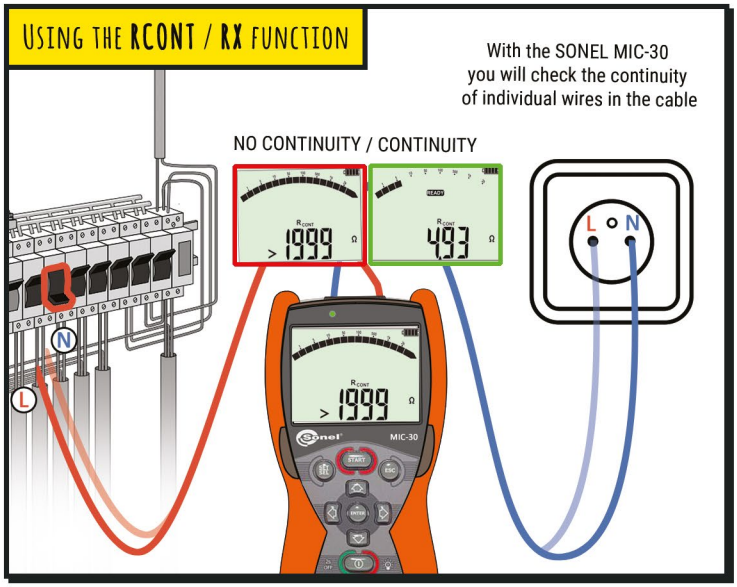


Checking socket connections



Using the RCONT / RX function

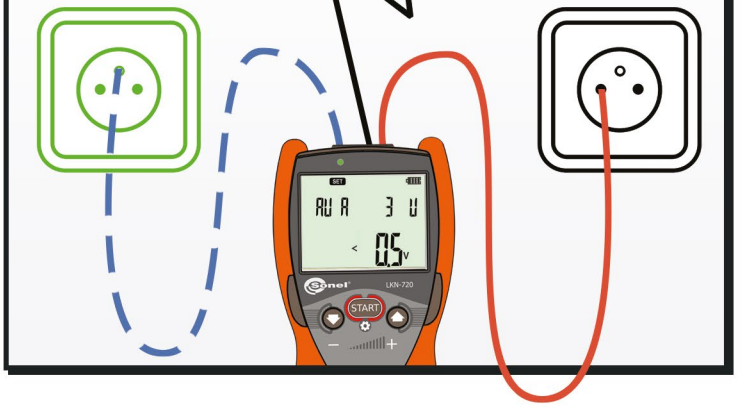
With the SONEL MIC-30 you will check the continuity of individual wires in the cable



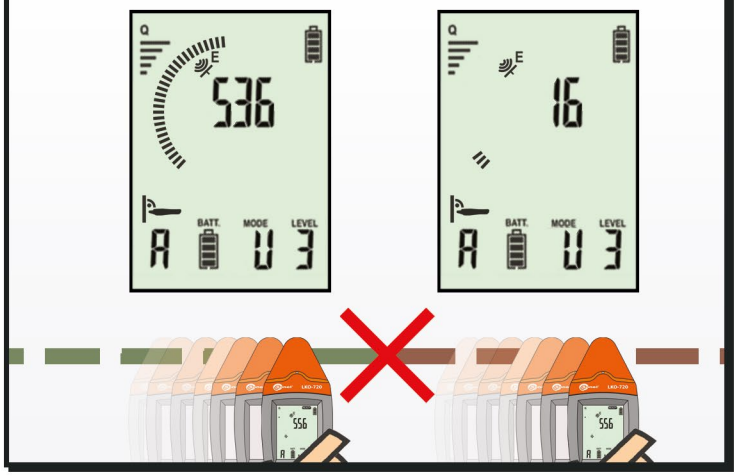
Location of a wire break

Connect the blue lead of the transmitter to the pin of adjacent socket (PE), neutral (N) or leave unconnected.

Connect the red lead to the opening of the break core being tested (L)



After passing the break location the signal strength displayed by the receiver is significantly weaker.



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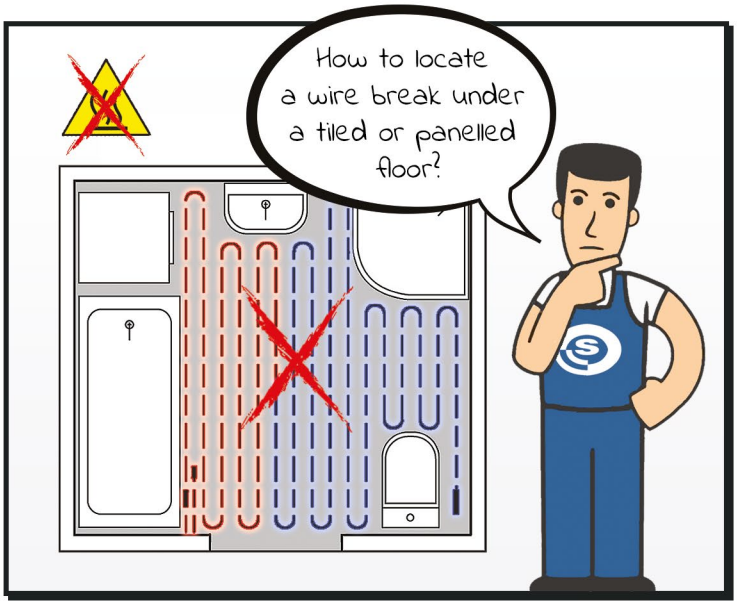
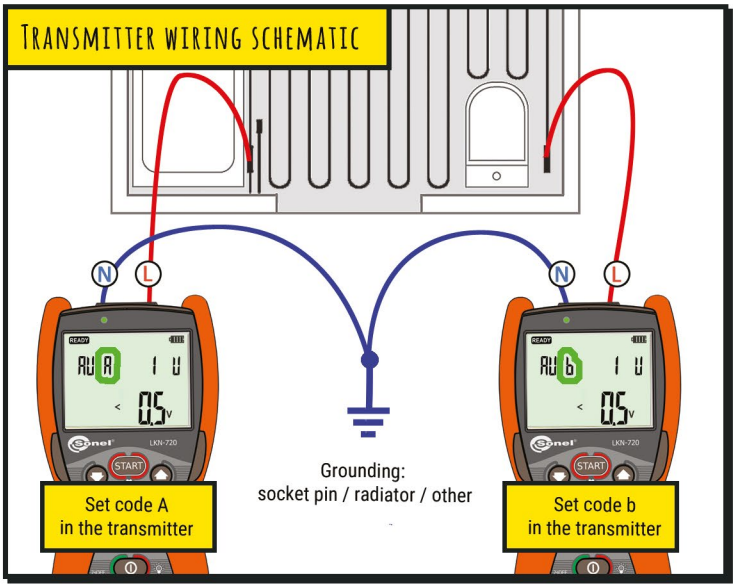
How to find a break location

with the SONEL LKO-720 receiver and a pair of SONEL LKN-720 transmitters

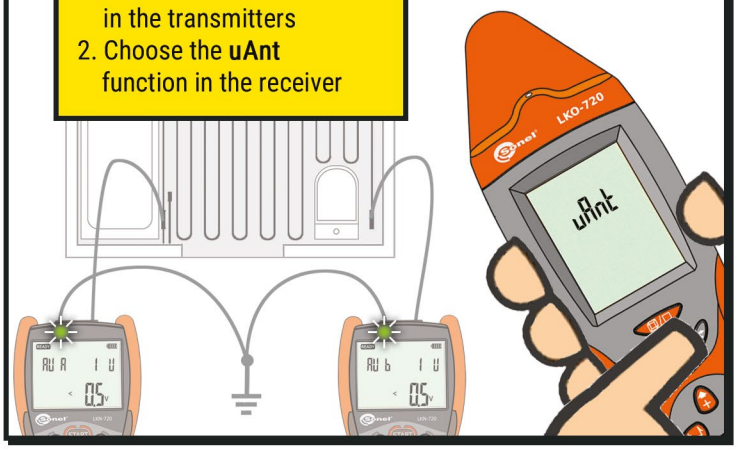


Transmitter wiring schematic



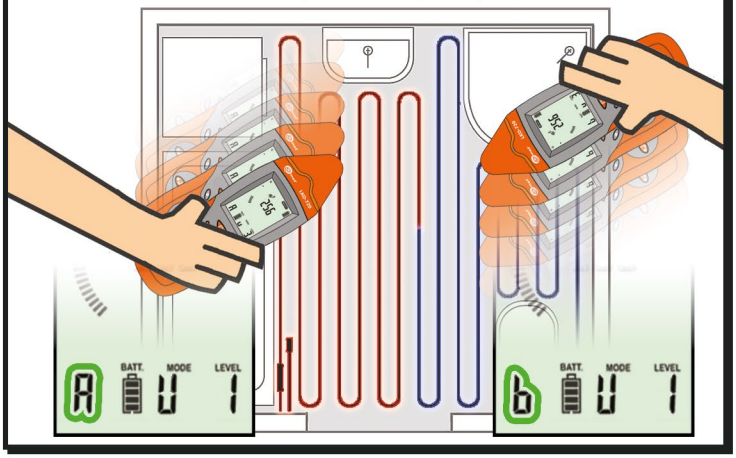
Using the **uAnt** function

1. Press **START** in the transmitters
2. Choose the **uAnt** function in the receiver



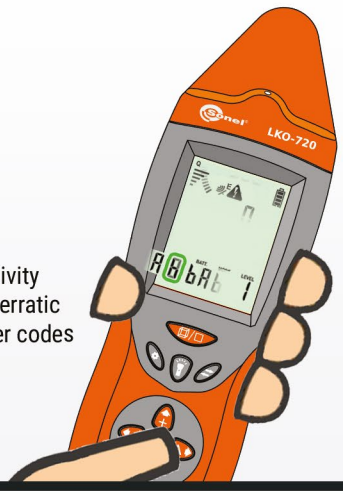
Locating wire breaks with LKO-720

Notice the transmitter symbol displayed in the receiver A change from **A** to **b** probably indicates a break.



Measuring sensitivity adjustment

Reduce the receiver sensitivity by pressing Δ in the case of erratic randomly displayed transmitter codes



A change in the code displayed in the receiver indicates the probable break point