

PIL 8 Phasenlux®

Phase identification in earthed and short-circuited medium voltage cables



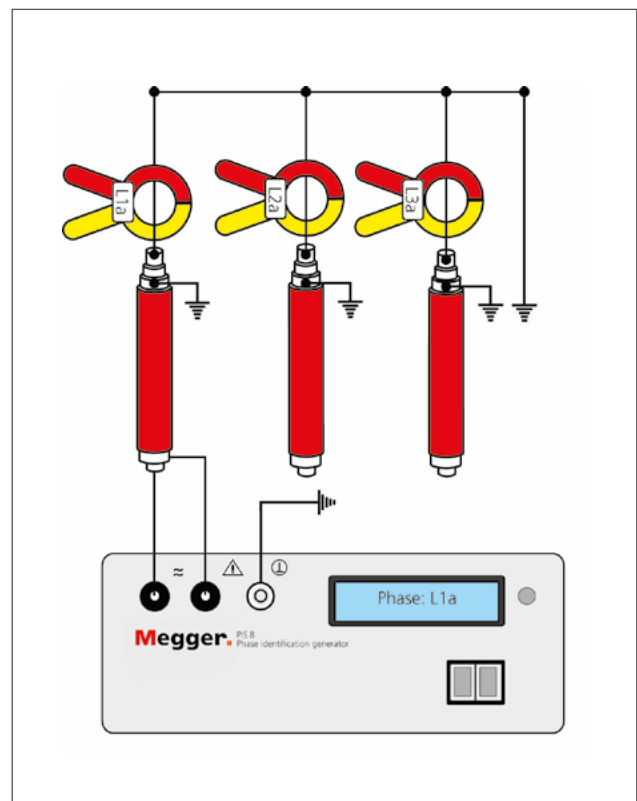
- **Maintenance-free, battery free clamps**
- **Applicable in all types of switchgear**
- **Simple operation**
- **Absolut safe phase identification**

DESCRIPTION

The VDE regulation 0105 part 1 (EN 50110-1) stipulates that for the purpose of phase identification in medium voltage cables it is necessary to disconnect the earthing and short-circuiting for the duration of the measurement; other suitable safety measures must also be implemented.

The phase identification instrument PIL 8 meets these requirements: it eliminates the need to disconnect the short-circuiting and earthing circuit. After installing the three pairs of clamps, the doors of the chamber can be closed.

The Phasenlux PIL 8 works with three pairs of transceiver clamps: one of each is connected to the short-circuited phases without any connection leads (power supply is not required!). At the other end of the cable (cutting point, other substation, etc.) an audio frequency current is fed into the cable by means of a battery operated audio frequency generator. This audio frequency current generates a voltage in the transceiver clamps which is recorded and stored in a capacitor. There is a small audio frequency generator inside the transceiver clamps that, as soon as a DC voltage is connected, transmits a coded signal to the receiver indicating the designated phase connected to each pair of clamps. Now, the audio frequency generator at the cutting point of the cable is used as a receiver which displays the transceiver clamps' signal.



Basic circuit diagram of a phase identification

TECHNICAL DATA*

Generator/receiver

Output power	8 W
Frequency	3 kHz
Display	LCD display 98 x 23 mm
Power supply	rechargeable battery/mains
Dimensions	110 x 280 x 190 mm
Weight	4 kg

Transceiver clamp

Inner diameter	50 mm
Weight	0.6 kg

Set of clamps

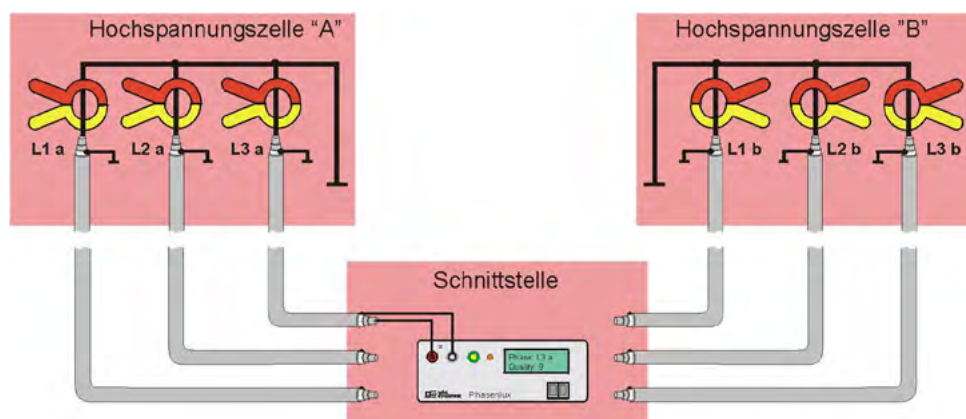
Each set comprises 3 clamps L1x, L2x, L3x

Each set carries additional code A, B or C (e.g. L1A, L2A, L3A)

SCOPE OF DELIVERY

Basic Set

- 1 Generator/receiver
- 1 Set of leads
- 1 Transport case
- 3 Warning label magnetic
- 1 Manual



Connection with optional transceiver clamps coded (L1b, L2b, L3b)

ORDERING INFORMATION

Product	Order no.
Basic set including set of clamps codes A and B	
Operating voltage 230V	1012890
Operating voltage 115V	1012891
Basic set without clamps	
Operating voltage 230V	1010463
Operating voltage 115V	1010465
Please chose coded set of clamps:	
PIZ 50-A-VS, Set of clamps coded A: L1A, L2A, L3A	1012728
PIZ 50-B-VS, Set of clamps coded B: L1B, L2B, L3B	1010466
PIZ 50-C-VS, Set of clamps coded C: L1C L2C, L3C	1010467
PIZ 50-N, Transceiver clamp coded	1011797

* We reserve the right to make technical changes.

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