



## PIL 8 Phasenlux

### Phase identification in earthed and short-circuited medium voltage cables

#### Benefits:

- ▶ Maintenance-free tongs
- ▶ Applicable in all types of switch-gear
- ▶ Most simple operation



#### Safety and working ease

The VDE regulations 0105 part 1 (EN 50110-1) stipulate that if for the purpose of a 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 have to be implemented.

The new phase identification instrument PIL 8 meets this requirement, inasmuch as its application eliminates the need of disconnecting the short-circuiting and earthing circuit. After installation of the three pairs of tongs, the doors of the chamber can be closed.

#### Description of the method

The Phasenlux PIL 8 works with three pairs of transceiver tongs which are connected **without** any connection leads one each to the short-circuited phases (power supply is not required!).

At the other end of the cable (cutting point, other substation, ...), 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 tongs which is rectified and stored in a capacitor. Inside the transceiver tongs there is a small audio frequency generator which, as soon as a DC voltage is connected, transmits a coded signal to the receiver indicating the designated phase to which the pair of tongs has been connected. Now, the audio frequency generator at the cutting point of the cable is used as a receiver which displays the signal of the transceiver tongs.

#### Scope of delivery

- ▶ 1 pc. Generator/receiver PIL 8
- ▶ 1 set of Cables VL 83-E
- ▶ 3 pairs of Transceiver tongs PIZ 50
- ▶ 1 pc. Transport case PIK 8

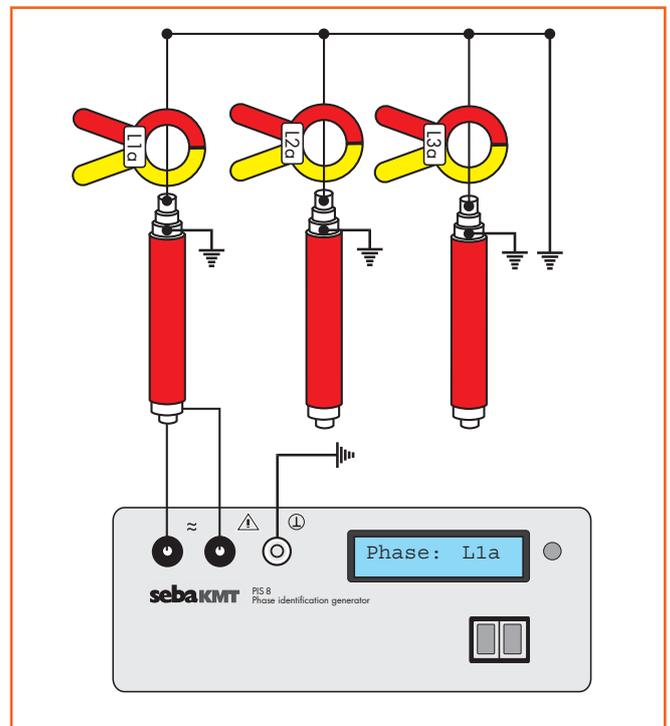
#### Special accessories

- ▶ for each additional end-to-end measurement (3 are possible) 3 pairs of transceiver tongs PIZ50

#### Technical data

##### Generator/receiver PIL 8

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



Basic circuit diagram of a phase identification