

## PIL 8 Phasenlux®

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



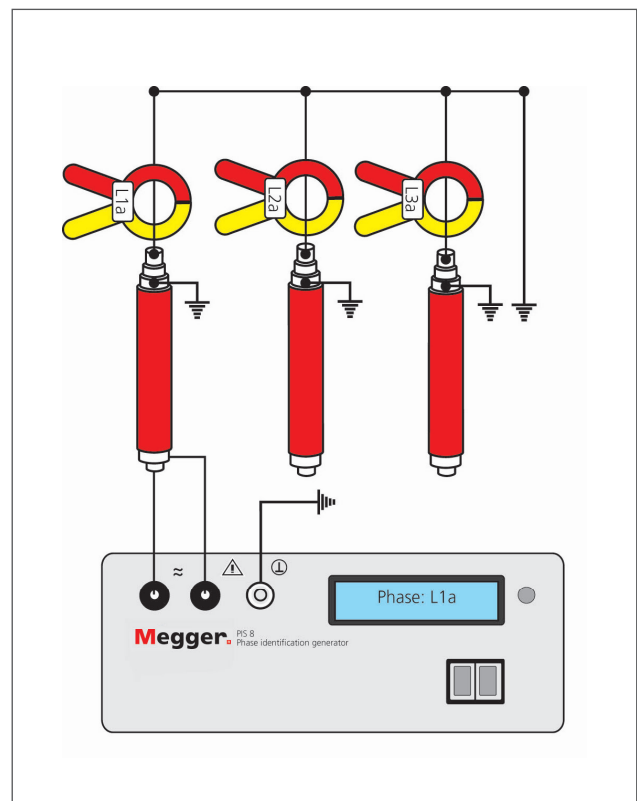
- Maintenance-free, battery free clamps
- Applicable in all types of switchgear
- Simple operation

### 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 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

## SCOPE OF DELIVERY

- 1 generator/receiver PIL 8
- 1 set of cables
- 6 transceiver clamps 50 mm
- 1 transport case

## OPTION

- for each additional end-to-end measurement (3 are possible) transceiver clamps 50 mm
- 3 additional transceiver clamps 50 mm

## ORDERING INFORMATION

Product	Order no.
PIL 8 Phase identification instrument Generator with rechargeable battery and mains lead, set of cables	813353
Transceiver clamp 1-A 50 mm diameter	81000082
Transceiver clamp 2-A 50 mm diameter	81000085
Transceiver clamp 3-A 50 mm diameter	81000088
Transceiver clamp 1-B 50 mm diameter	81000083
Transceiver clamp 2-B 50 mm diameter	81000086
Transceiver clamp 3-B 50 mm diameter	81000089
Warning label magnetic (2 pcs)	301030595
Transport case	810003322

\* We reserve the right to make technical changes.

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### CERTIFICATION ISO

Registered to ISO 9001 Cert. no. 000677 QM08

### PIL8\_DS\_EN\_V02

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