

## PHE Voltage Detector

### Nominal voltages up to 30 kV / 50 Hz

- Also for use in wet weather
- Category "S" for indoor and outdoor installations
- With self-testing element
- Visual indicator
- Wide nominal voltage ranges
- Easy transport due to detachable insulating rod



#### Self-testing element

The PHE electronic voltage detector has an integrated self-testing element that automatically tests the electronic circuit for correct operation (threshold) after switching on the detector. The detector is only ready for operation if the function test was performed successfully.

#### Replacing the battery

The PHE voltage detector operates on 4 Mignon IEC LR6 batteries housed in a separate battery compartment for easy battery replacement. Low battery conditions are indicated by both LEDs illuminated when switching on the voltage detector.



Before testing for safe isolation from supply voltages, correct operation of the voltage detector must be verified. When pressing the "TEST" button, the red light is flashing.



After releasing the button, the green LED lights up. The test for correct operation was successful and the detector is ready for operation.

## SAFETY EQUIPMENT

### VOLTAGE DETECTORS

EN/IEC 61243-1 (DIN VDE 0682 Part 411)



PHE voltage detector with visual indicator.

#### Technical Data

|                             |  |
|-----------------------------|--|
| Test prod                   | Glass-fibre reinforced epoxy resin tube, Ø20 mm, grey;<br>Test electrode made of Cu alloy/gal Sn Ø20 mm, with tooth profile for reliable contact, with M8 female thread for attaching electrodes and test probes |
| Indicator                   | Plastic, fully insulated, black  |
| Indication                  | Red LED '⚡' (flashing light);<br>Green LED '0' (permanent light)   |
| Insulating rod              | Glass-fibre reinforced polyester tube, Ø30 mm, grey, detachable, with a handguard for safe operation;<br>Sealing unit with non-slip plastic cap  |
| Operating temperature range | - 25° C ... + 55° C, climatic category N   |



#### Special features of the switchable detector 3 ... 10 kV / 6 ... 20 kV / 15 ... 30 kV:

The nominal voltage selector switch allows for switching between three voltage ranges. For safety reasons, the detector can only be switched on if the selector is switched to the most sensitive range of 3 kV to 10 kV. A magnetically operated, wear-resistant reed switch changes the switching position. The switch snaps into the selected position and protects against accidental switching.

## SAFETY EQUIPMENT

## PHE Voltage Detector

## VOLTAGE DETECTORS



| Type | Nominal voltage<br>$U_N$ | Total length<br>$l_G$ | Insertion depth<br>$l_0$ | Part<br>No. |
|------|--------------------------|-----------------------|--------------------------|-------------|
|------|--------------------------|-----------------------|--------------------------|-------------|

**A Nominal Voltages up to 30 kV / 50 Hz**  
 Category "S"

|          |       |         |        |         |
|----------|-------|---------|--------|---------|
| PHE 3 S  | 3 kV  | 1115 mm | 320 mm | 767 403 |
| PHE 6 S  | 6 kV  | 1115 mm | 320 mm | 767 406 |
| PHE 10 S | 10 kV | 1115 mm | 320 mm | 767 418 |
| PHE 20 S | 20 kV | 1300 mm | 505 mm | 767 428 |
| PHE 30 S | 30 kV | 1460 mm | 665 mm | 767 438 |

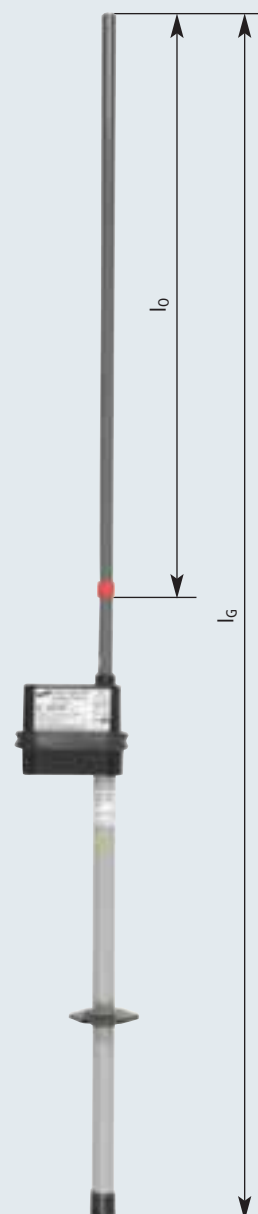
**B Nominal Voltage Ranges up to 30 kV / 50 Hz**  
 Category "S"

|             |              |         |        |         |
|-------------|--------------|---------|--------|---------|
| PHE 3 10 S  | 3 ... 10 kV  | 1375 mm | 580 mm | 767 410 |
| PHE 6 20 S  | 6 ... 20 kV  | 1565 mm | 770 mm | 767 420 |
| PHE 15 30 S | 15 ... 30 kV | 1565 mm | 770 mm | 767 430 |

**C Nominal Voltage Ranges up to 30 kV / 50 Hz, switchable**  
 Category "S"

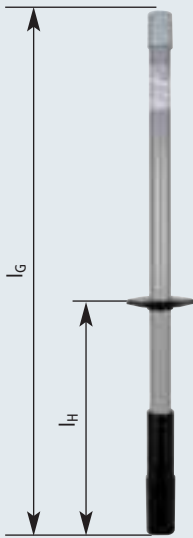
|              |                                    |         |        |         |
|--------------|------------------------------------|---------|--------|---------|
| PHE U 3 30 S | 3 ... 10 / 6 ... 20 / 15 ... 30 kV | 1565 mm | 770 mm | 767 433 |
|--------------|------------------------------------|---------|--------|---------|

Voltage detectors for other nominal voltages and frequencies are available on request.



## Accessories for PHE Voltage Detector

## SAFETY EQUIPMENT VOLTAGE DETECTORS



### Insulating Rod with Plug-in Coupling for Handle Extension

| Type           | Diameter | Total length<br>$l_G$ | Handle length<br>$l_H$ | Part<br>No. |
|----------------|----------|-----------------------|------------------------|-------------|
| IS M12 STK 640 | 30 mm    | 640 mm                | 370 mm                 | 766 331     |



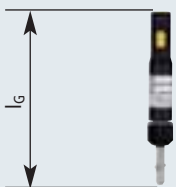
Plugging extension handle type HV STK into insulating rod type IS PHE STK.



### HV STK Extension Handle

Plug-in coupling at both ends for extending the handle

| Type          | Diameter | Total length<br>$l_G$ | Part<br>No. |
|---------------|----------|-----------------------|-------------|
| HV STK 30 710 | 30 mm    | 710 mm                | 766 335     |



### Adapter – Plug-in Coupling / T pin Shaft

For extending the handle of insulating rods type IS PHE with earthing rod type ES SQ or ES SQL

| Type         | Total length<br>$l_G$ | Part<br>No. |
|--------------|-----------------------|-------------|
| AD HV STK SQ | 280 mm                | 766 313     |

### STK Sealing Unit

| Type  | Diameter   | Total length<br>$l_G$ | Part<br>No. |
|-------|------------|-----------------------|-------------|
| A STK | 30 / 43 mm | 85 mm                 | 766 888     |

new

### STK Sealing Unit with Eye

| Type   | Diameter   | Total length<br>$l_G$ | Part<br>No. |
|--------|------------|-----------------------|-------------|
| AR STK | 30 / 43 mm | 150 mm                | 766 889     |

new



## SAFETY EQUIPMENT

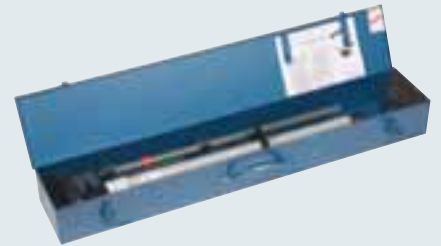
## Accessories for PHE Voltage Detector

## VOLTAGE DETECTORS

## Sheet Metal Case, empty

Hammer-finished with retaining springs

| Type          | Colour | Dimensions          | For PHE<br>total length | Part<br>No. |
|---------------|--------|---------------------|-------------------------|-------------|
| SKL 92 16 10  | ●      | 920 x 160 x 100 mm  | up to 1460 mm           | 766 703     |
| SKL 116 16 10 | ●      | 1160 x 160 x 100 mm | from 1460 mm            | 766 603     |



## Plastic Case, empty

With foam padding

| Type      | Colour | Dimensions          | For PHE<br>total length | Part<br>No. |
|-----------|--------|---------------------|-------------------------|-------------|
| KKL PHE   | ●      | 930 x 215 x 140 mm  | up to 1460 mm           | 766 997     |
| KKL PHE L | ●      | 1270 x 215 x 140 mm | from 1460 mm            | 766 999     |



## Artificial Leather Bag, empty

With shoulder strap

| Type          | Colour | Dimensions          | Part<br>No. |
|---------------|--------|---------------------|-------------|
| KLT 121 25 16 | ●      | 1200 x 250 x 160 mm | 766 601     |



## Artificial Leather Bag, empty

With shoulder strap and shoulder belt

Max. capacity:

- 1 PHE electronic indicator
- 1 Insulating rod
- 2 Extension handles
- 2 Electrodes

| Type         | Colour | Dimensions          | Part<br>No. |
|--------------|--------|---------------------|-------------|
| KLT 1010 300 | ●      | 1010 x 300 x 100 mm | 767 996     |

new



## Storage Device

Wall-mounted

| Type        | Colour | Diameter | Dimensions | Part<br>No. |
|-------------|--------|----------|------------|-------------|
| HV P ST D30 | ●      | 30 mm    | 430 mm     | 700 007     |

