



Safety all along the line

PHE4 Voltage Detector



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DEHN protects®. For us, the safety and quality of our products and solutions takes top priority. The new generation of PHE4 voltage detectors is further evidence of this.

The proven DEHN voltage detector series is now supplemented by PHE4 products. The design concept is continued. PHE4 voltage detectors also feature the proven plug-in coupling system. Therefore existing DEHN insulating sticks with plug-in coupling system can still be used.

The PHE4 voltage detector has many advantages. The handle and test prod are arranged in a straight line without offset, making it easier to contact the electrical installation. The transparent indicator panel is clearly visible and the test result is easy to read even in difficult light conditions.

More than 50 years of experience with voltage detectors

Our voltage detectors have been standing for quality and safety for decades. Rely on the highest standards and our long-standing experience in developing and manufacturing safety devices for work on electrical installations.

Benefits:

- Self-test ensures proper function
- Easily extendable thanks to plug-in coupling system
- Visual and acoustic signal
- Large combined indicator and operating panel
- One operating concept for voltages from 1 kV up to 420 kV



The PHE4 voltage detector with sufficiently long insulating stick is ideally suited for use in **outdoor switching stations**.



The compact design of the PHE4 voltage detector is beneficial in **electrical switchgear assemblies**.



The new generation of PHE voltage detectors according to **IEC 61243-1** for work on electrical installations from 1 to 420 kV allows to verify on all poles that the installation is dead¹⁾.



More than 50 years of experience: From the first voltage detector until today.

¹⁾ IEC 61243-1: Live working – Voltage detectors – Part 1: Capacitive type to be used for voltages exceeding 1 kV a.c.

Stands out due to a variety of advantages

PHE4 Voltage Detector



- 1** Test prod with contact electrode
- 2** Red ring
- 3** Operating head
- 4** Indicator and operating panel
- 5** Insulating element
- 6** Hand guard
- 7** Handle
- 8** Plug-in coupling
- 9** Extension handle



Safety right up to the test prod

The function of the voltage detector must be checked immediately before it is used. In case of the PHE4 voltage detector, this is done with a self-test. If voltage detectors up to 36 kV are used, an electrical pulse is additionally sent up to the test prod. The voltage detector is not operational in the event of a fault.



Proven coupling mechanism

The voltage detector can be quickly and easily extended thanks to the DEHN plug-in coupling system and the snap-in mechanism. Existing DEHN insulating sticks with plug-in coupling system can still be used – sustainably and efficiently.



Reliable indication with both visual and audible outputs

The visual indication and the acoustic signal indicate whether voltage is present. Super-bright LEDs clearly show the voltage condition even in case of strong backlight. The acoustic signal is perceptible also in areas with loud ambient noise.

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Good visibility and ease of use

The visual indication is clearly visible on the combined indicator and operating panel. The operating panel can be safely and easily operated even when wearing protective gloves.



Operational in all weather conditions

The PHE4 voltage detector is suitable for indoor and outdoor use in wet weather conditions – rain, hail, snow, fog or dew. It can be used for temperatures between -25 °C and +70 °C.

Stay true to your line

PHE4 Voltage Detector



Only tested devices protect lives

In our high-voltage test laboratory, we carry out **periodic inspections** for safety devices such as voltage detectors. Inspections are documented on the device and in a separate test report.



Profit from our know-how

In our compact safety equipment seminar, you will learn how to apply the 5 safety rules. Based on practical examples, we will inform you about the application possibilities and handling of our safety devices.





More operating comfort and safety during live working

Stay true to your line: PHE4 voltage detectors have a proven high quality. The straightforward design and the combined indicator and operating panel facilitate handling. The self-test as well as the visual and acoustic signal increase safety for electricians.

Excerpt from our portfolio:

1 Voltage detector for nominal voltages up to 33 kV / 50 Hz		Part No.
PHE4 3 S	3 kV	783 003
PHE4 3.3 S	3.3 kV	783 033
PHE4 6 S	6 kV	783 006
PHE4 6.6 S	6.6 kV	783 066
PHE4 10 S	10 kV	783 010
PHE4 11 S	11 kV	783 011
PHE4 20 S	20 kV	783 020
PHE4 22 S	22 kV	783 022
PHE4 30 S	30 kV	783 030
PHE4 33 S	33 kV	783 045
2 Voltage detector for nominal voltage ranges up to 420 kV / 50 Hz		Part No.
PHE4 3 10 S	3 ... 10 kV	783 231
PHE4 3.3 11 S	3.3 ... 11 kV	783 233
PHE4 6 20 S	6 ... 20 kV	783 235
PHE4 6.6 22 S	6.6 ... 22 kV	783 243
PHE4 10 20 S	10 ... 20 kV	783 240
PHE4 10 30 S	10 ... 30 kV	783 250
PHE4 11 33 S	11 ... 33 kV	783 255
PHE4 30 60 S	30 ... 60 kV	783 270
PHE4 60 110 S	60 ... 110 kV	783 275
PHE4 110 220 S	110 ... 220 kV	783 285
PHE4 220 420 S	220 ... 420 kV	783 290
3 Voltage detector for nominal voltages up to 30 kV / 50 Hz with gear coupling		Part No.
PHE4 3 S ZK	3 kV	783 103
PHE4 6 S ZK	6 kV	783 106
PHE4 10 S ZK	10 kV	783 110
PHE4 20 S ZK	20 kV	783 120
PHE4 30 S ZK	30 kV	783 130



Technical assistance:

Phone: +49 9181 / 906 – 1045
 Fax: +49 9181 / 906 – 1046
 Email: itss@dehn.de

Orders:

Phone: +49 9181 / 906 – 1462
 Fax: +49 9181 / 906 – 1444
 Email: sales@dehn.de

More information: www.de.hn/vdetector

www.dehn-international.com/partners



**Surge Protection
Lightning Protection
Safety Equipment
DEHN protects.®**

DEHN + SÖHNE
GmbH + Co.KG.

Hans-Dehn-Str. 1
P.O. Box 1640
92306 Neumarkt
Germany

Phone +49 9181 906-0
Fax +49 9181 906-1100
info@dehn.de
www.dehn.de



www.dehn-international.com



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