PFISTERER

KP-Test 5D dual
KP-Test 5D-S dual

Non-contact high voltage detector for use on overhead lines and in outdoor switchgears

www.pfisterer.com

KP-Test 5D dual

High voltage testing: simple, safe, non-contact.

Before carrying out repair and maintenance work, the five safety rules have to be applied. One of these is “check to make sure there is no voltage”. This requires equipment that clearly and reliably indicates the voltage status. The KP-Test 5 series from PFISTERER meets the highest safety standards worldwide, and offers the right solution for every application. Also contact-free with the KP-Test 5D dual for overhead lines and the KP-Test 5D-S dual for outdoor switchgear.

Non-contact testing method

The KP-Test 5D dual and KP-Test 5D-S dual voltage detector works on the field probe principle. The field probe detects the electrical field surrounding the voltage detector. An evaluation unit monitors the field strength. If it exceeds a defined threshold, the voltage detector shows “operating voltage present”. If the value is not reached, the device signals that no voltage is present.

More safety

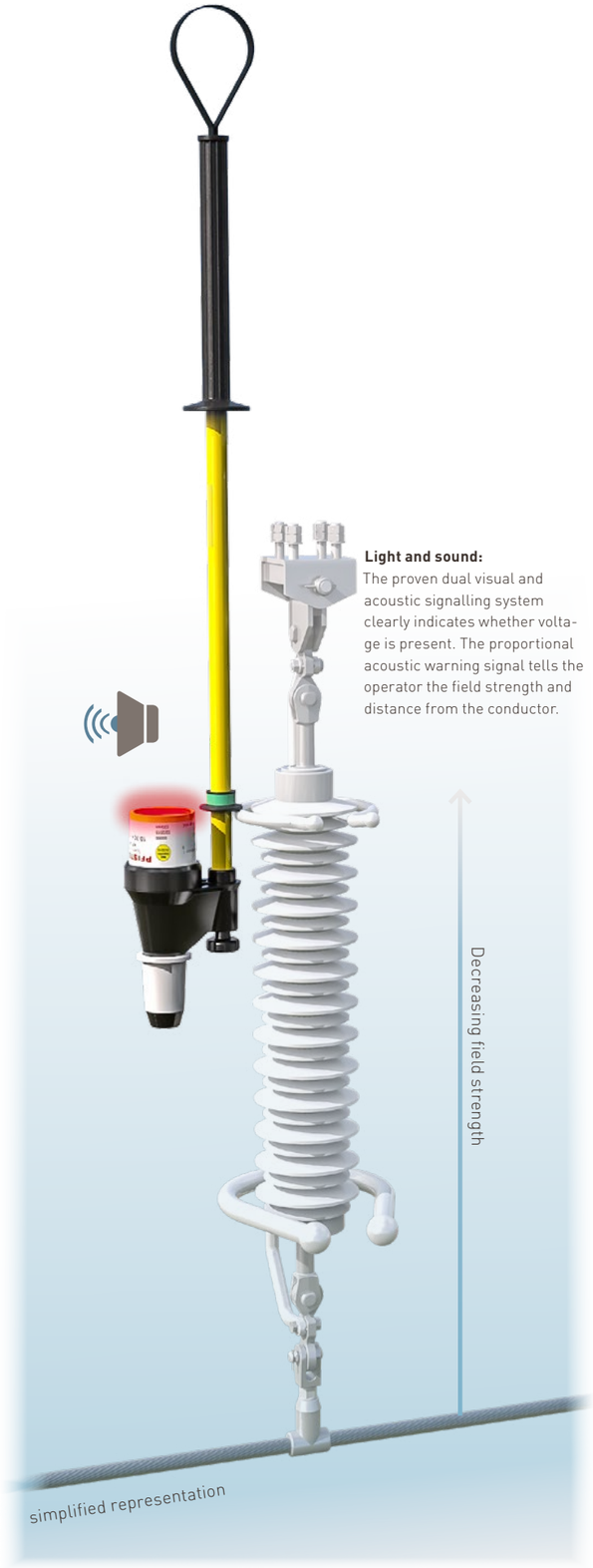
Like all members of the KP-Test 5 family, the KP-Test 5D dual and KP-Test 5D-S dual perform a reliable self-test when switched on. The test result is indicated via the proven dual system comprising a visual and an acoustic signal. In addition, a proportional acoustic warning signal makes it clear when the voltage detectors are approaching a live conductor – at an early stage, before the actual response threshold is reached. It works by sounding tones at decreasing intervals, like a vehicle reversing sensor.

Anywhere, in any weather

Whether in rain, fog or temperatures between -25 °C and +70 °C, the KP-Test 5D dual and KP-Test 5D-S duals reliably and safely detect voltage under all conditions. Extra powerful LEDs ensure a clearly visible signal – even against bright lights or in strong sunlight. The integrated acoustic signal can be clearly heard even in noisy environmental conditions – such as in wind on overhead power line towers.

Two testing ranges

The KP-Test 5D dual and the KP-Test 5D-S dual feature outstanding flexibility for specific applications. It has two switching levels for testing different voltages. This allows a voltage of 110 kV and a voltage range from 110 kV to 420 kV at a frequency of 50 Hz can be tested on overhead lines and in outdoor switchgears.
For use on railway overhead lines, there is a version of the KP-Test 5D dual with the levels 110 kV / 16.7 Hz and 110 kV / 50 Hz.



Easy handling

With an overall length of less than one metre and weight of 1,080 grams, the KP-Test 5D dual is easy to handle in every situation – whether in use on a tower or while being transported in the ergonomic bag with shoulder strap. Hence the voltage detector offers additional safety in everyday use. The practical hand strap provides additional protection against falling when working on the mast.

KP-Test 5D dual in Numbers

- Weight: 1,080 g
- Length: 980 mm
- Probe length: 270 mm
- Length of insulating section: 520 mm
- Handle length: 290 mm
- Diameter of insulating section: 24 mm
- Tested according to standard DIN VDE V 0682-417

Choosing the right product

	Railway applications	Utility company applications
Types	Level I: 110 kV	16,7 Hz Level II: 110 kV	50 Hz	Level I: 110 kV	50 Hz Level II: 220 - 420 kV	50 Hz
Article no. With carrying bag	930 470 501 / 00019	930 470 501 / 00010
Article no. Without carrying bag	930 470 501 / 00020	930 470 501 / 00015

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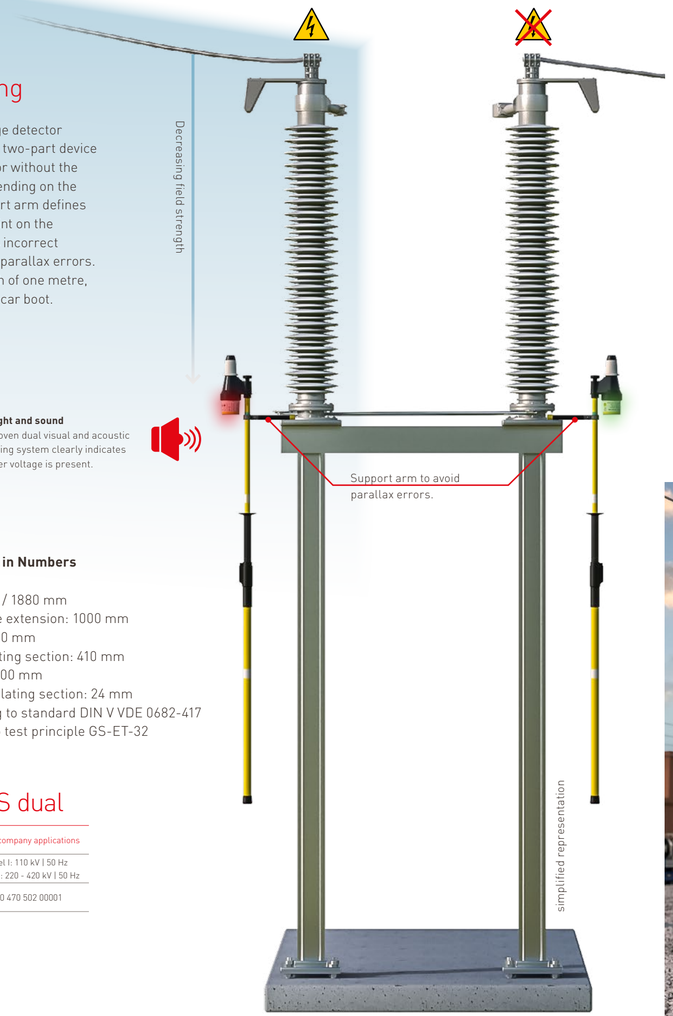
Easy handling

The non-contact voltage detector KP-Test 5D-S dual is a two-part device and can be used with or without the handle extension, depending on the application. The support arm defines the correct contact point on the insulator and prevents incorrect measurements due to parallax errors. With a transport length of one metre, the device fits into any car boot.



Red light and sound
The proven dual visual and acoustic signalling system clearly indicates whether voltage is present.

KP-Test 5D-S dual in Numbers

- Weight: 1,250 g
- Length: 960 mm / 1880 mm
- Length of handle extension: 1000 mm
- Probe length: 270 mm
- Length of insulating section: 410 mm
- Handle length: 300 mm
- Diameter of insulating section: 24 mm
- Tested according to standard DIN V VDE 0682-417 and according to test principle GS-ET-32

KP-Test 5D-S dual

	Utility company applications
Types	Level I: 110 kV I 50 Hz Level II: 220 - 420 kV I 50 Hz
Article no. With carrying bag	930 470 502 00001

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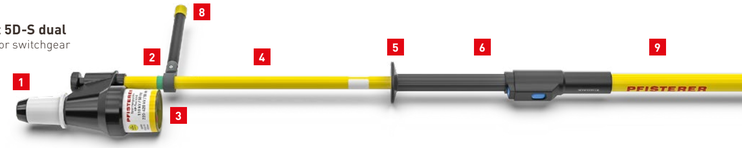
KP-Test 5D-S dual
- Outdoor switchgear



KP-Test 5D dual
- Overhead line

1 Electronic part
2 Positioning mark
3 Indicator with evaluation electronics
4 Insulating Part
5 Hand Guard
6 Handle (L_H)
7 Hand Strap
8 Support arm
8 Handle extension

Benefits
- Reliable self-test
- Clear signalling
- Visual and acoustic signal
- Proportional acoustic warning signal
- Lightweight and compact
- Use in any weather

Green light
No voltage present: Voltage detector shows a green continuous light without a signal tone.

PFISTERER

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In 1921, Karl Pfisterer founded his factory in Stuttgart for special electrical products with the aim of improving the world of power transmission. The PFISTERER Group has pursued this goal of quality and technological leadership for more than 100 years. Today, PFISTERER is one of the world's leading specialists and system suppliers for energy infrastructure – with a complete range of cable accessories, overhead line technology and components along the entire transmission chain from power generation to consumption. With state-of-the-art manufacturing processes and 1,200 employees at 19 international locations, PFISTERER not only connects the power grids of today and tomorrow, but also makes an important contribution to a sustainable and secure energy supply.

KP-Test 5D dual / KP-Test 5D-S dual M2018-003 EN 06 07/2024