Type VKP-36M

VOLTAGE DETECTOR

Technical description

and

Instructions for use



VILLBEK KFT. SZEGED

TECHNICAL DESCRIPTION

Type designation:	**VKP-36M**
Nominal voltage range:	**10-36 kV**
Maximum voltage:	**40,5 kV**
Threshold voltage:	**3,6 kV ≤ U_k ≤ 4,5 kV**
Nominal frequency:	**50 Hz**
Outdoor design:	**L** category (design without a contact-tip extension)
Climatic class:	**N** (-25 - +55C°)
VEIKI test approval number:	**5472/VNL**
Applicable standard:	**MSZ EN IEC 61243-1:2021**
Supply voltage:	**6 V** (2x CR 2032)
Operating current consumption:	**35 mA**
Quiescent current consumption:	**0 mA**
Indications:	**Visual and audible**
Indication group:	**III** (indication of the "voltage present" state, with a standby state)

Voltage detector insulated operating rod: VK-TR-C-2000

Requirements:

Requirements for the use of the voltage detector in accordance with clause 6.2.3 of MSZ 1585:

The absence of voltage must be verified on every pole of the electrical installation at, or as close as possible to, the work location. This condition of the de-energised parts of the electrical installation must be verified in accordance with local operating rules appropriate to established practice.

For nominal AC voltages between 10 and 36 kV (three-phase system), verification must be carried out using a single-pole voltage detector complying with MSZ EN 61243-1. At these voltage levels, the indications of instruments built into the electrical installation are not sufficient to verify the absence of voltage.

Instructions for use:

Check that the voltage detector is operational by pressing the TESZT (TEST) button. While the button is held down, the red and green LEDs flash alternately and an intermittent audible signal sounds. When the button is released, the green LED lights up, then goes out after approximately 25 seconds and the voltage detector enters standby mode.

Before and after every use, check that the detector is operational using the TESZT (TEST) button.

If there is no audible or visual indication when the TESZT (TEST) button is pressed, replace the batteries.

If the battery voltage falls below 4 V, the red LED flickers and there is no audible signal.

If the device still gives no indications after the batteries have been replaced, the voltage detector is faulty and its use is PROHIBITED!

If the red LED is lit and the green LED flickers, the electronics are faulty. THE VOLTAGE DETECTOR MUST NOT BE USED!

Another way to check the detector is to touch its contact tip to a point known to be live (10-36 kV). If the red LED flashes and an intermittent audible signal sounds at the same time, the voltage detector is operational.

WARNING!

Avoid any voltage detection method in which the sensing head of the voltage detector approaches the phase conductor to be tested in such a way that it simultaneously contacts two phases, or a phase and earth potential. When testing busbars not protected by an enclosure or barrier, position the operating rod so that the sensing head touches only the phase conductor being tested and is as far as possible from any other potential.

Voltage detection procedure:

The voltage detector is intended to indicate the presence of voltage on electrical installations with a nominal voltage of 10-36 kV (three-phase system).

Suitable operating rod: VK-TR-C-2000 (Manufacturer: VILLBEK Kft.)

The storage case contains 3 types of contact tip. The straight contact tip may be used indoors and outdoors, while the hook and fork contact tips may be used only on outdoor installations. During voltage detection, the requirements for the use of the insulating rod must be observed!

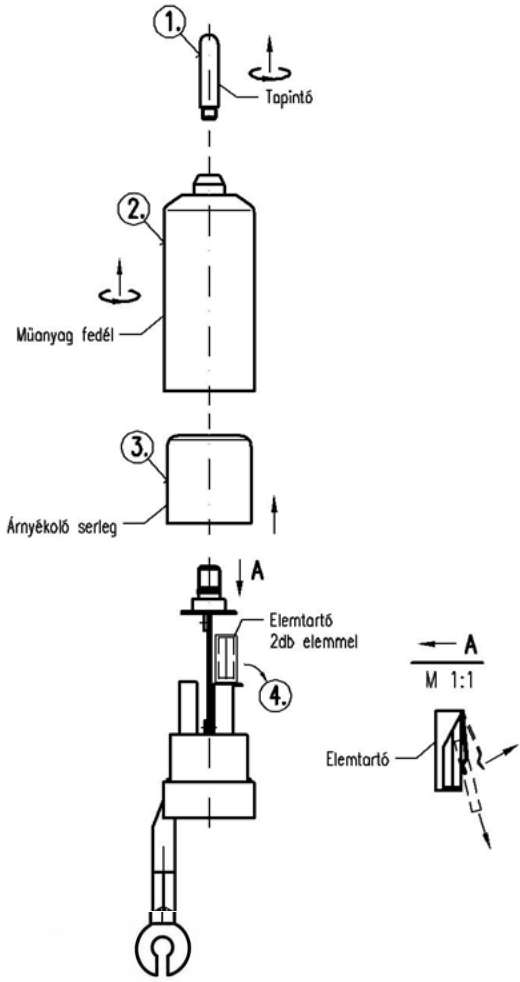
Hold the insulating rod by its handle and touch the voltage detector to the installation to be tested.

THE CONTACT POINT MUST HAVE A METALLIC SURFACE!
(free from paint and dirt)

When nominal voltage is present, the red LED flashes rhythmically and an intermittent audible signal sounds.

Battery replacement (Figure 1):

1. unscrew the contact tip
2. unscrew the plastic cover
3. pull off the shielding cup
4. replace the batteries, observing the polarity marked in the battery holder



Manufacturer and service:
VILLBEK Kft.
6728 Szeged, Vágány u. 15.
Tel.:62/464-371 Fax:62/473-087
E-mail:villbek@villbek.hu
www.villbek.hu

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