



WYTWÓRNA SPRZĘTU ELEKTROENERGETYCZNEGO
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LOW VOLTAGE DETECTOR C.A. 760

The C.A. 760 is a digital diode type acoustic-visual low-voltage AC/DC current detector, circuit continuity detector and phase swirl direction detector (two-conductor's method).

The C.A. 760 includes:

- phase/zero indication,
- the function which enables to make the standard diagnostics of the differential disconnectors,
- phase swirl direction indication (two-conductor's method),

The detector's design meets the following Standard requirements:

- PN-EN 61243-3:2002 - the standard concerns the B class and outdoor type detectors,
- PN-EN 61010-1 - 600V CAT III,
- EN 61326-1/A2 2001 criterion B in the range of electromagnetic compatibility.

The C.A. 760 advantages are as follows:

- high level of electrical safety; the presence of AC/DC voltage automatically switches on the detection, which protects against misinterpretation,
- auto-test enables to check the internal electronic circuits and measuring conductors' condition,
- the housing's high mechanical resistance against falling down from up to 2 meters height,
- mechanical safety during continuity testing, when the circuit voltage is up to 600 Veff,
- high protection class: IP65,
- detachable contact tips,
- 19 mm distance of the contact tip holders.

The phase comparator parameters:

- Voltage detection: $12\text{ V} < U < 690\text{ V}$ between phases (600 V to earth),
- Frequency: DC, 16....400 Hz,
- Impedance: $Z > 390\text{ k}\Omega$,
- Max peak current 690V: $I_s = 1,7\text{ mA}$ in peak,
- Response time: immediate.

Power supply:

- 9V 6F22, 6LR61 - 1 battery life
 - 6000 measurements with 10 sec. duration time (with 9V alkaline battery),
 - 3000 measurements with 10 sec. duration time (with 9V standard 6F22 battery).
- Battery wear indication: Auto Test

Environmental conditions:

- temperature: -10°C up to 55°C
- humidity: $< 96\%$
- level: up to 2000 m above sea level

Storage:

- temperature: -40°C to 70°C with no battery

Dimensions: 163 x 63.6 x 40 mm

Weight: 150 g (including battery)

Reference documents:

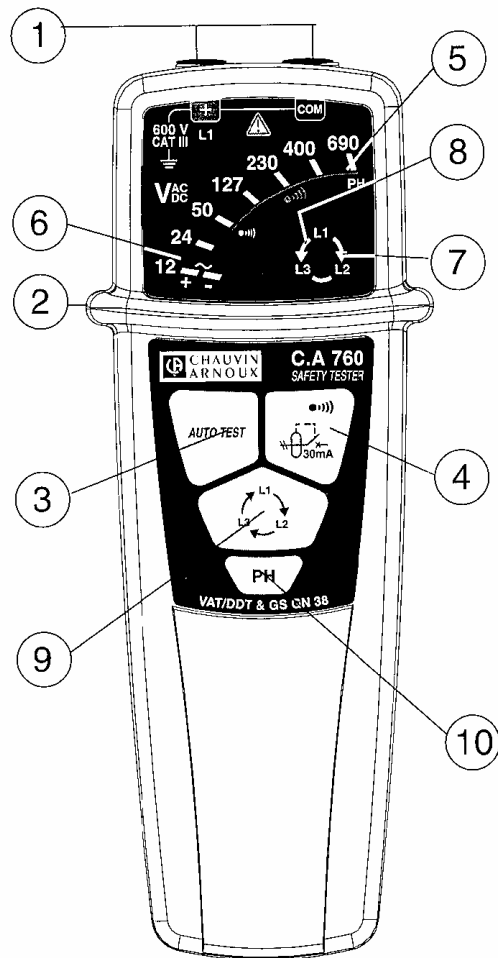
PN-EN 61243-3:2002 Live working. Voltage detectors. Part 3: Low voltage bipolar voltage detectors.
PN-EN 61010-1:1999 Safety requirements concerning electrical measuring instruments for automatics
and laboratory devices. General requirements.
EN 61326-1/A2: 2001 Electromagnetic compatibility.

Producer: CHAUVIN ARNOUX France.

Distribution and service: Wytwórnia Sprzętu Elektroenergetycznego „AKTYWIZACJA” Sp. Pracy.

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Description

1. Disconnectable test points: Φ 2mm
2. Guard – protection against skid. There is a guard on the circumference to protect the operator against occasional contact with a non-isolated conductor.
3. Auto-test pushbutton / test of the 30 mA differential disconnectors switch off.
4. Diode set for danger voltages 50V up to 690V (red).
5. Diode set for low voltages 12V up to 24V of continuity (green) and the polarity indicator.
6. Diode phase swirl direction clockwise (green).
7. Diode phase swirl direction counter-clockwise (red).
8. Phase swirl direction pushbutton. Pushbutton zone: detection phase/zero.