

PROFI**SAFE | 690B & 690L Voltage and Continuity Tester** in Accorance with DIN EN 61243-3 / VDE 0682-401

3-349-755-03 4/11.17

- Voltage test
- Phase test
- Polarity test
- Phase sequence indication
- Continuity test
- Rugged housing, safe use even in moist environment, Protection IP 65
- Easy to operate, VDE-GS tested
- Measuring category CAT IV devices
- Maintenance-free over the entire life span



PROFISAFE 690L and PROFISAFE 690B are particularly handy and safe test instruments without battery, maintenance-free and and environmentally friendly.

Applicable Regulations and Standards

DIN EN 61010-1:2011 VDE 0411-1:2011	Safety requirements for electrical equipment for measurement, control and laboratory use — General requirements
DIN EN 61243-3 VDE 0682-401:2011-02	Live working – Voltage detectors – Part 3: Two-pole low-voltage type up to 1000 V
DIN EN 60529/ VDE 0470 Part 1	Test instruments and test procedures Protection provided by enclosures (IP code)
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Display

- 1 red LED for voltage ≥ 50 V AC / 120 V DC
- 1 green LED for continuity 0 ... 1000 $k\Omega$
- 1 display (LCD) with background illumination, measuring rate 2/s

PROFISAFE 690B:

7 steps (bargraph)



Characteristic Values

PROFISAFE 690L: 12 ... 690 V AC/DC Nominal voltage range

(±3% + 4 d) digital display

PROFISAFE 690B: 12 ... 690 V AC/DC 7 steps (bargraph): 12, 24, 50, 120, 230, 400, 690 V

Frequency range

Current

(peak value, Is)

3.4 mA at 400 V/690 V Input resistance 167 k Ω AC/DC at 690 V 200 k Ω AC/DC at 50 V

0 ... 500 Hz

On-time 30 s at 690 V Continuity test $0 \dots 1000 \text{ k}\Omega$

PROFISAFE 690L:

digital display of measured values (continuously)





PROFISAFE | 690B PROFISAFE | 690L

Voltage and Continuity Tester

Ambient Conditions

Reference

temperature 20 °C

Operating

temperatures -15 ... +45 °C

Standard Equipment

- 1 Voltage and continuity tester
- Set of operating instructions

Order Information

Description	Туре	Article Number
Voltage and continuity tester 12 690 V with bargraph display	PROFISAFE 690B	M630H
Voltage and continuity tester 12 690 V with digital display	PROFISAFE 690L	M630J

Power Supply

Voltage tests can be conducted without the integrated lithium storage battery as the required energy is taken from the test

The power for the other tests is supplied by a lithium storage battery which can be recharged by a 230 V mains terminal.

Electrical Safety

Safety class II per IEC 61010-1 Measuring category CAT IV 600 V CAT III 690 V

Surge withstand

capability $> 8 \text{ kV } (1.2/50 \text{ } \mu\text{s})$

Test voltage 6 kV

Electromagnetic Compatibility EMC

Interference emission EN 61326-1:2013 class B Interference immunity EN 61326-1:2013

Mechanical Design

Protection Housing ABS, IP 65 Extract from table on the meaning of IP codes

IP XY	Protection against foreign	IP XY	Protection against
(1 st digit X)	object entry	(2 nd digit Y)	the penetration of water
6	dust-tight	5	

Connecting table polyurethane sheathed cable 1000 V, 1m

Dimensions Display element:

W x L x D: 48 mm x 231 mm x 37 mm

Weight approx. 170 g

Edited in Germany ullet Subject to change without notice ullet A pdf version is available on the Internet



