

# PROFISAFE | 400 PROFISAFE | 690 Voltage-Continuity Tester

3-349-402-03  
2/1.12

- 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



**CAT IV**



**CE**

## Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
DIN EN 61243-3 VDE 0682-401:2011-02	Two-pole low-voltage detectors up to 1000 V
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

## Characteristic Values

### Display

9 LEDs for indicating voltage, voltage type AC/DC and polarity as well as continuity, phase and phase sequence

Nominal voltage range

#### PROFISAFE | 400:

12 ... 400 V AC/DC in increments of 12, 24, 50, 120, 230, 400 V

#### PROFISAFE | 690:

24 ... 690 V AC/DC in increments of 24, 50, 120, 230, 400, 690 V

Frequency range

0 ... 2000 Hz

Current

(Peak value, Is)

3.4 mA at 400 V/690 V

Input resistance

**PROFISAFE | 400:** 117 kΩ

**PROFISAFE | 690:** 202 kΩ

On-time

30 s

Continuity test

0 ... 500 kΩ

**PROFISAFE | 400**

**PROFISAFE | 690**

# Voltage-Continuity Tester

## Ambient Conditions

Reference temperature 20 °C  
Operating temperatures -10 ... +55 °C

## Power Supply

Voltage tests can be conducted without the integrated solar cell and/or the lithium storage battery as the required energy is taken from the test source.

The power for the other tests is supplied by a lithium storage battery which is continuously recharged by a high-performance solar cell, even under sparse light conditions.

## Electrical Safety

Safety class II per IEC 61010-1  
Measuring category CAT IV per EN 60664-1

## Electromagnetic Compatibility EMC

Interference emission EN 61326-1:2006 Class B  
Interference immunity EN 61326-1:2006

## Mechanical Design

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

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

Connecting cable Rubber insulated flexible cable  
HO7RN-F, 1m  
Dimensions W x L x D: 49 mm x 230 mm x 37 mm  
Weight approx. 170 g

## Standard Equipment

- 1 Voltage-continuity tester
- 1 Set of operating instructions

## Order Information

Description	Type	Article Number
Voltage-continuity tester 12 ... 400 V	<b>PROFISAFE   400</b>	M630E
Voltage-continuity tester 24 ... 690 V	<b>PROFISAFE   690</b>	M630F

Edited in Germany • Subject to change without notice • A pdf version is available on the internet

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