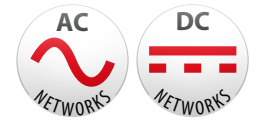


# RI-F48 | RI-R48 | RI-R48N

IT NETWORKS INSULATION CONTROL 24-48 VAC/DC



## General Characteristics



These devices allow the insulation monitoring to earth of electric networks in alternate and direct current 24-48 VAC/DC isolated (IT systems). These devices measure the potential variation of two polarity on earth reference, to signal when the insulation decreasing under a fixed value. Auxiliary supply is taken from under-control network. On the frontal panel there is the signaling of device ON, a TEST and a RESET (versions RI-R48 and RI-R48N) pushbuttons and LEDs to the signaling of tripping (TRIP) and to indicate the polarity (version RI-R48N) of the line under control that has low insulation. The TRIP threshold is regulated by micro-switches (versions RI-R48 and RI-R48N). It's available a changeover contact relay to use the low insulation signaling in a remote panel.

## Features

- INSULATION MONITORING OF IT SYSTEMS 24-48 VAC/DC
- TRIP MANUAL RESET (VERSIONS RI-R48 AND RI-R48N)
- LOW INSULATION LED
- DAMAGED POLE LED (VERSION RI-R48N)
- TEST PUSHBUTTON
- TRIP THRESHOLD SETTING (VERSIONS RI-R48 AND RI-R48N)

## Technical characteristics

<b>Controlled network voltage</b>	24-48 VAC/DC
<b>Power consumption</b>	3 VA
<b>ALARM threshold setting</b>	-
<b>TRIP threshold setting</b>	10÷60 kΩ (version RI-R48 and version RI-R48N) 100kΩ (version RI-F48)
<b>Tripping delay</b>	< 5 sec
<b>Max measuring current</b>	0,5 mA
<b>Max measuring voltage</b>	-
<b>Internal impedance</b>	50 kΩ
<b>TRIP Relay number NO-C-NC</b>	1
<b>ALARM Relay number NO-C-NC</b>	-

<b>Max relay contact capacity</b>	250V - 5A
<b>Operating temperature</b>	-10 ÷ 60 °C
<b>Storage temperature</b>	-20 ÷ 80 °C
<b>Relative humidity</b>	≤95%
<b>Max terminal section</b>	4 mm <sup>2</sup>
<b>Protection degree</b>	IP40 front   IP20 housing
<b>Insulation test</b>	2.5 kV 60 sec. / 4 kV imp 1.2/50 μs
<b>Modules</b>	3
<b>Weight</b>	200 g
<b>Standards</b>	EN 61010-1, EN 61557-8, EN 61326-1

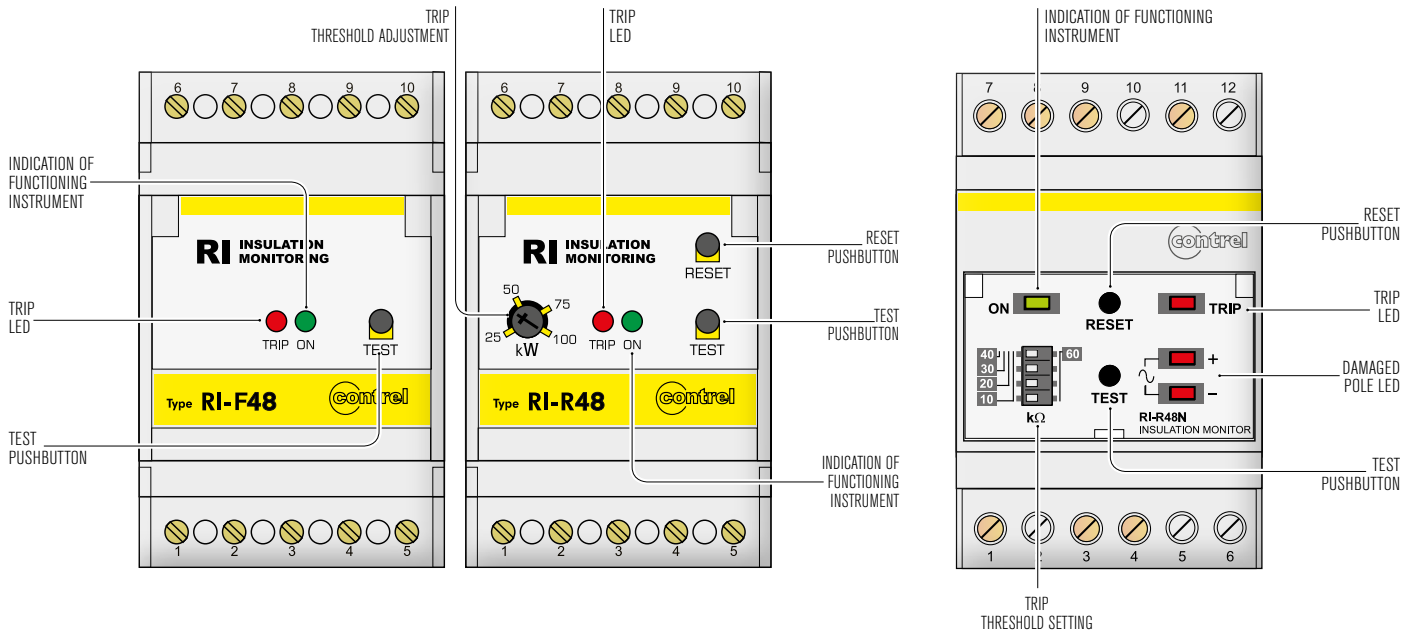
ORDER CODE	VERSION	Vaux	DESCRIPTION	CONTROLLED NETWORK VOLTAGE	MODULES
RI-F48	TRIP threshold fixed 100kΩ	24-48 VAC/DC	IT networks insulation control 24-48 VAC/DC	24-48 VAC/DC	3
RI-R48	TRIP threshold adjustment	24-48 VAC/DC	IT networks insulation control 24-48 VAC/DC	24-48 VAC/DC	3
RI-R48N	TRIP threshold adjustment Damaged pole LED	24-48 VAC/DC	IT networks insulation control 24-48 VAC/DC	24-48 VAC/DC	3

# RI-F48 | RI-R48 | RI-R48N

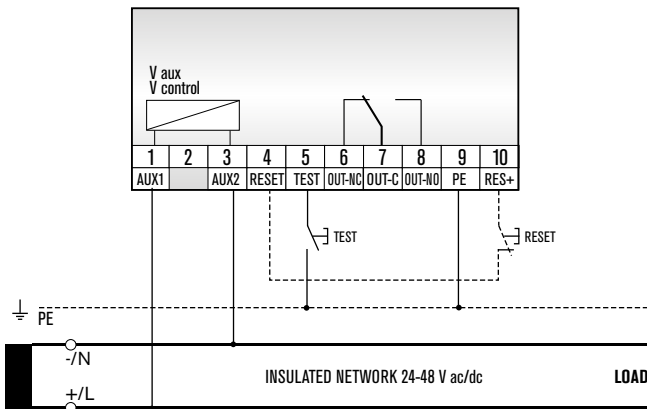
IT NETWORKS INSULATION CONTROL 24-48 VAC/DC



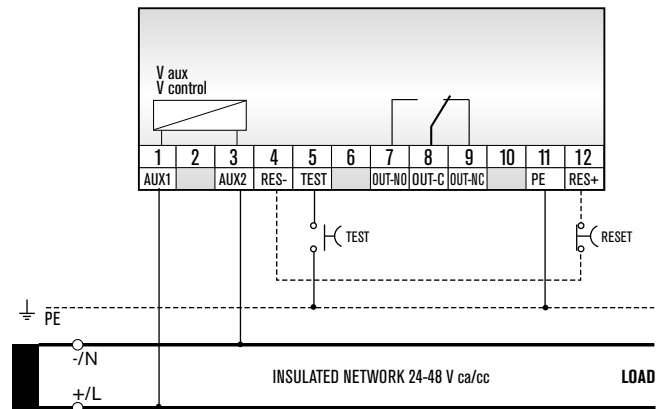
## Operators



## Wiring diagrams



RI-F48 | RI-R48



RI-R48N

## Mechanical dimensions (mm)

