

# RI-R11 | RI-R11D

IT NETWORKS INSULATION CONTROL 110-230 VCC



## General Characteristics



The RI-R11-115 and RI-R11-230 devices allow the permanent insulation monitoring to earth of electric networks in direct current isolated (IT systems). Insulation resistance monitoring is carried out measuring the potential variation of two polarity on ground reference. Auxiliary supply is taken from under-control network. The threshold of trip is regulated by a series of micro-switches. On the frontal panel there is the signaling of device ON, a TEST and a RESET push-buttons and three red LED to signal the tripping (TRIP) and to indicate the polarity of the line under control that has low insulation. It's available a changeover contact relay to use the low insulation signaling in a remote panel.

### Features

INSULATION MONITORING OF IT SYSTEMS UP TO 230 VDC

TRIP AND ALARM LED

INSULATION LEVEL

DAMAGED POLE LED

TRIP AND ALARM THRESHOLD SETTING

TEST AND RESET PUSHBUTTON

## Technical characteristics

<b>Controlled network voltage</b>	100-144 VDC (version RI-R11 115) 230 VDC (version RI-R11 230)
<b>Power consumption</b>	4 VA
<b>ALARM threshold setting</b>	30÷300 kΩ
<b>TRIP threshold setting</b>	10÷100 kΩ
<b>Tripping delay</b>	< 5 sec
<b>Max measuring current</b>	1.8 mA
<b>Max measuring voltage</b>	-
<b>Internal impedance</b>	100 kΩ L/PE   200 kΩ L/PE
<b>TRIP Relay number NO-C-NC</b>	2
<b>ALARM Relay number NO-C-NC</b>	2

<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>	2.5 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>	6
<b>Weight</b>	400 g
<b>Standards</b>	EN 61010-1, EN 61557-8, EN 61326-1

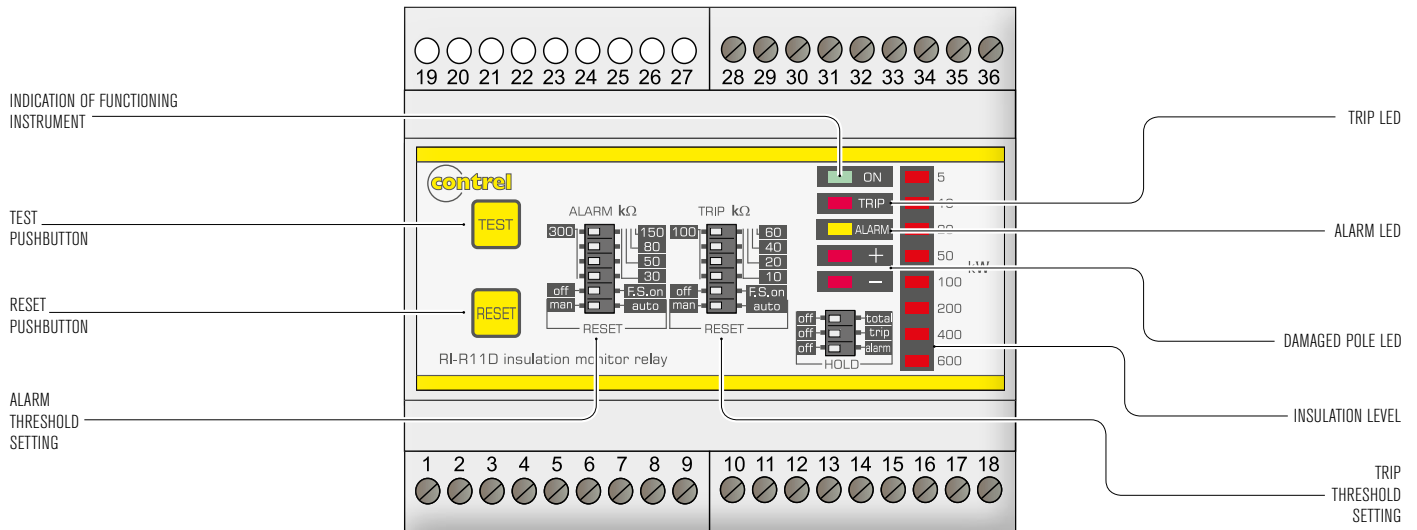
ORDER CODE	VERSION	Vaux	DESCRIPTION	CONTROLLED NETWORK VOLTAGE	MODULES
RI-R11 115	ALARM and TRIP threshold setting Damaged pole LED	80-180 VDC	IT networks insulation control 115 VDC	100-144 VDC	6
RI-R11D 115	ALARM and TRIP threshold setting, damaged pole LED, insulation level display	80-180 VDC	IT networks insulation control 115 VDC	100-144 VDC	6
RI-R11 230	ALARM and TRIP threshold setting Damaged pole LED	185-275 VDC	IT networks insulation control 230 VDC	230 VDC	6
RI-R11D 230	ALARM and TRIP threshold setting, damaged pole LED, insulation level display	185-275 VDC	IT networks insulation control 230 VDC	230 VDC	6

# RI-R11 | RI-R11D

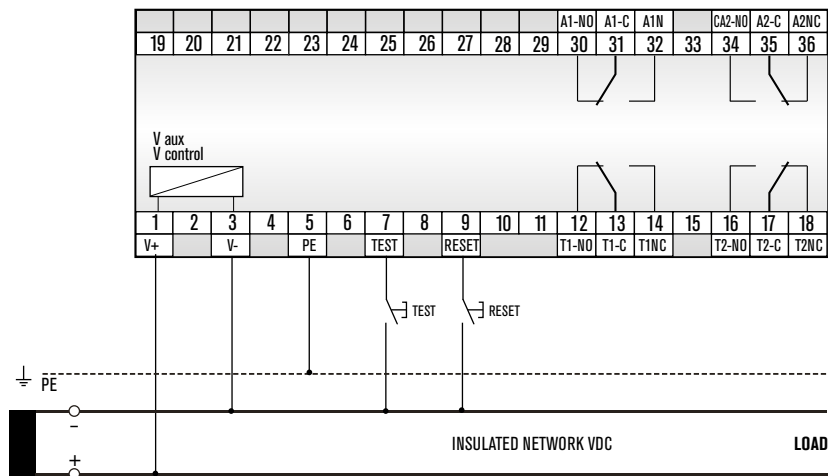
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## Operators



## Wiring diagrams



## Mechanical dimensions (mm)

