

RI-R15

IT NETWORKS INSULATION CONTROL 600 VDC



General Characteristics



The RI-R15 device allows 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 frontal potentiometer. On the frontal panel there is the signaling of device ON, 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. The relay can be set as FAIL SAFE function. On front panel there are a TEST and a RESET push-buttons.

The test can be activated locally while the reset can be set in automatic or manual, with local or external push-button.

Features

INSULATION MONITORING OF IT SYSTEMS UP TO 600 VDC

WIDE TRIPPING THRESHOLD ADJUSTMENT

FAIL SAFE RELAY FOR TIMELY MONITORING, EVEN IN CASE OF SUPPLY FAILURE

TEST AND RESET CAN BE REMOTELY OPERATED BY A PUSHBUTTON

VISUAL INDICATION OF THE NETWORK STATUS AND INDICATION OF THE FAULTY POLARITY

Technical characteristics

Controlled network voltage	280-340 VDC (version RI-R15 300) 400-600 VDC (version RI-R15 500)
Power consumption	6 VA
ALARM threshold setting	-
TRIP threshold setting	30÷300 kΩ
Tripping delay	< 5 sec
Max measuring current	1.5 mA
Max measuring voltage	-
Internal impedance	450 kΩ L/PE
TRIP Relay number NO-C-NC	1
ALARM Relay number NO-C-NC	-

Max relay contact capacity	250V - 5A
Operating temperature	-10 ÷ 60 °C
Storage temperature	-20 ÷ 80 °C
Relative humidity	≤ 95%
Max terminal section	2.5 mm ²
Protection degree	IP40 front IP20 housing
Insulation test	2.5 kV 60 sec. / 4 kV imp 1.2/50 μs
Modules	6
Weight	400 g
Standards	EN 61010-1, EN 61557-8, EN 61326-1

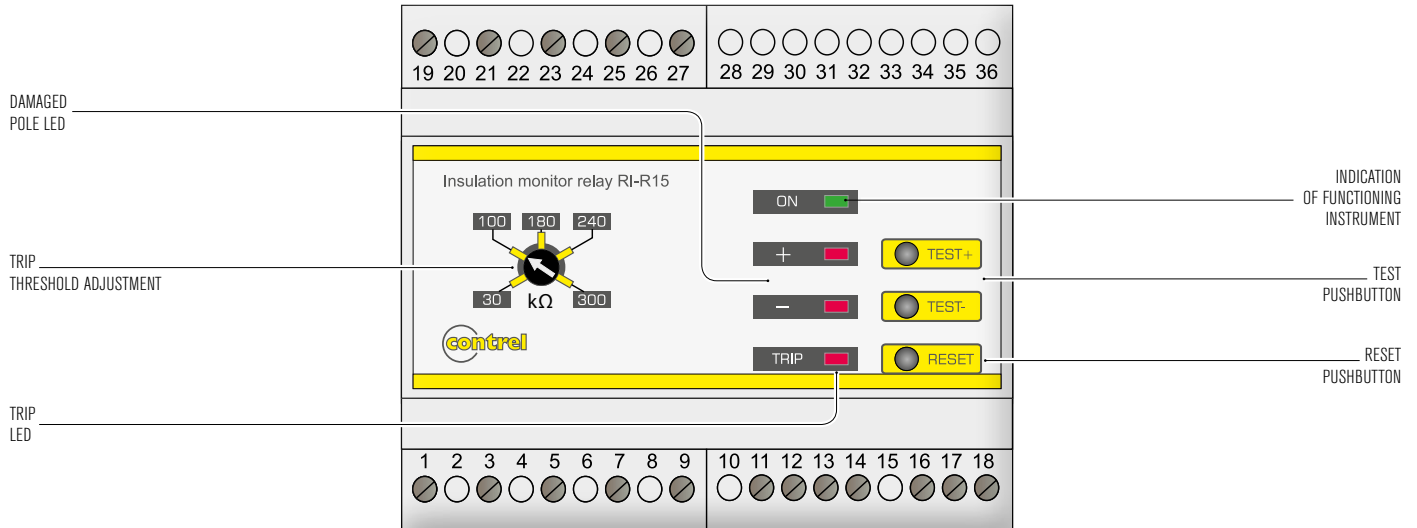
ORDER CODE	VERSION	Vaux	DESCRIPTION	CONTROLLED NETWORK VOLTAGE	MODULES
RI-R15 300	TRIP threshold adjustment, damaged pole LED	280-340 VDC	IT networks insulation control 340 VDC	280-340 VDC	6
RI-R15 500	TRIP threshold adjustment, damaged pole LED	400-600 VDC	IT networks insulation control 600 VDC	400-600 VDC	6
RI-R15 1000	TRIP threshold adjustment, damaged pole LED	600-1000 VDC	IT networks insulation control 1000 VDC (with ARI-R15 adapter)	600-1000 VDC	6

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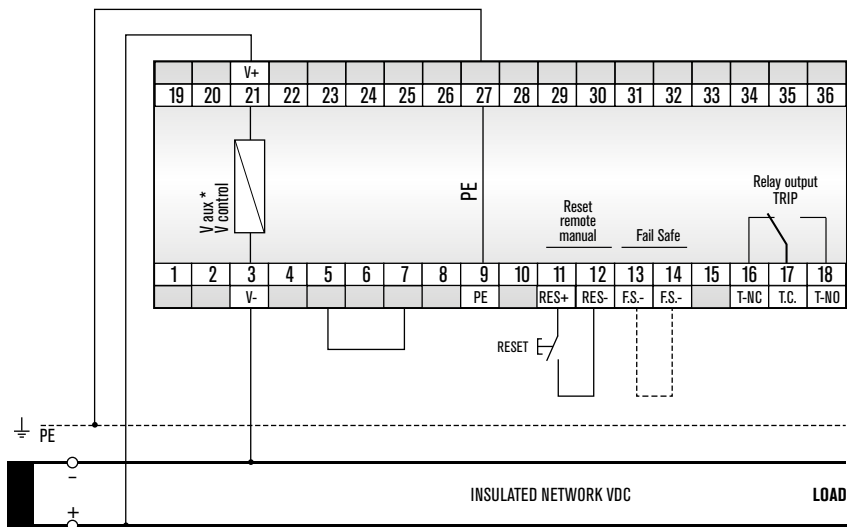
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Operators



Wiring diagrams



Mechanical dimensions (mm)

