



The High Sensitivity Earth Fault protective system RGT-64 is normally used in all Traction Power Supply DC Switchboard for detecting Leakage current between metal panel structure and earth. Current detection can be set uni-directional or bi-directional.

The system includes two main units connected by means of fibre optic cable: a microprocessor based protective relay for DIN-mounting rail execution (DIN-EN50022) and a current sensor which can be selected between Hall Effect Sensor (64-T) and Shunt (64-SH).

Hall Effect sensor allows a very high sensitivity: 2A with a rated current of 1.000A.

Relay unit is equipped with a very bright LED graphical display which, along with 4 buttons keyboard and 3 LEDs for signalisations, gives a very user-friendly HMI allowing relay settings, measuring and events recorded visualisation.

On relay front face a mini-USB port is also available for Laptop connection whereas implementation in SCADA system is possible through RS485 port with MODBUS RTU protocol.

Relay is equipped with 3 C/O Output relays for alarm and trip and 2 Digital inputs for blocking function and remote Reset.

A complete self diagnostic test is automatically carried out by the relay: in case of internal relay failure (IRF) an alarm is given through a dedicated C/O type output relay.

Reference Standards

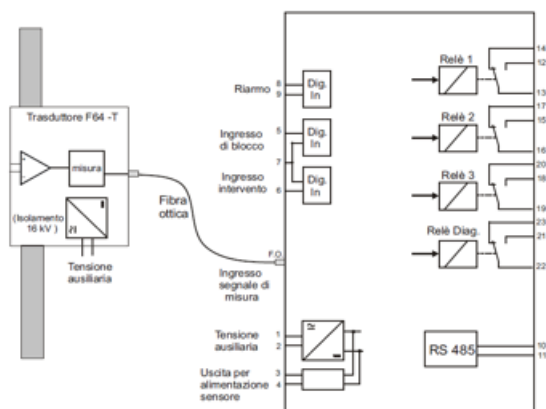
- Directive CE
 - EN60255-5
 - EN60068-2
 - EN61000-6-2
 - EN61000-6-4
 - EN50124
 - EN50121-5
-

ELECTRICAL CHARACTERISTICS

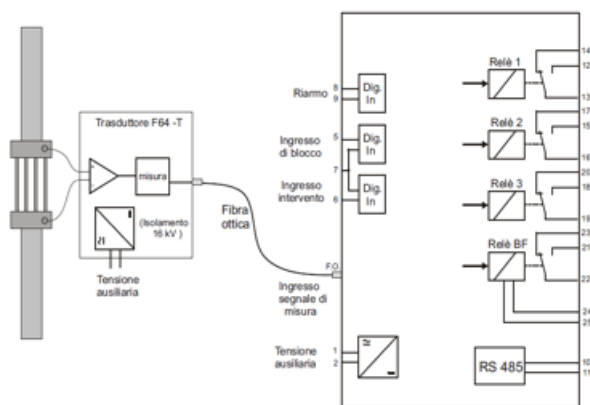
Power Supply	<ul style="list-style-type: none"> 24Vdc or 110 - 125Vdc
Measurement Input	<ul style="list-style-type: none"> 64-T: Hall Effect Sensor 64-SH: Shunt
Measurement Accuracy	<ul style="list-style-type: none"> 0,5% from 50 to 200 A 2% from 2 to 50 A
Rated Current	<ul style="list-style-type: none"> 1.000A
Maximum admissible current	<ul style="list-style-type: none"> 75 kA for 100 msec.
Transducer/Shut Output	<ul style="list-style-type: none"> polymeric fibre optic (max. lenght: 20m)
Trip Time delay range	<ul style="list-style-type: none"> 0.03 - 60s
Output Relays	<ul style="list-style-type: none"> 3 with C/O contacts
Diagnostic Relay	<ul style="list-style-type: none"> 1 with C/O contact
Output relays ratings	<ul style="list-style-type: none"> 5A @ 250 Vac - 2 A @ 30 Vdc - 250mA @ 110Vdc
Reset of Output Relays	<ul style="list-style-type: none"> Manual from Local Keyboard Automatic @ 90% of the trip level Remote via digital Input
Digital Inputs	<ul style="list-style-type: none"> 3 for Remote Trip, Remote Reset, Blocking Function
Serial Port	<ul style="list-style-type: none"> RS 485
Protocol	<ul style="list-style-type: none"> Modbus Rtu
Display	<ul style="list-style-type: none"> 128x128 back-light blue graphical
Keyboard	<ul style="list-style-type: none"> 4 buttons
Leds	<ul style="list-style-type: none"> 3 (Green for Power-on and Red for Trip)
Enclosures	<ul style="list-style-type: none"> Polycarbonate
Terminals	<ul style="list-style-type: none"> 2,5mm² max
Execution	<ul style="list-style-type: none"> 6 modules - DIN-EN50022 rail mounting

WIRING DIAGRAM

RGT-64/T- with Hall Effect Transducer Input



RGT-64/SH - with Input from Shunt



COET S.p.A.

via Civesio 12, 20097 San Donato Milanese (Mi), Italy
ph. +39.02.842934 email. coet@coet.it www.coet.it

The performances and the characteristics reported in this leaflet are not binding and can be modified at any moment without notice.