

Earth leakage protection and self-reclosing  
Earth protection relay + contactor + external transformer

# RGU-10 RAL

Earth protection Relay WG Series



## Description

Electronic earth leakage protection relay, used to connect the external toroidal transformers of the **WG / WGS / WGC** Series

- Self-reclosing with a programmable earth leakage trip
- Superimmunized type A Relay, with high frequency current filtering and high immunity. Monitoring in true RMS
- The backlight display shows the following information:
  - Adjustment values
  - Instantaneous leakage current
- It has two independent outputs:
  - Trip relay
  - End-of-reclosing-sequence interlocking relay
- External input for remote control functions (230 Vac)
- Automatic test of the connection and external transformer status
- Optional RS-485 Communications: type **RGU-10C RAL**
- Reduced dimensions: 3 modules
- Assembly on DIN rail 46277 (EN-50022).
- Optional assembly on 72 x 72 panel with accessory **M5ZZF1**.

## Application

The **RGU-10 RAL** relays associated to a meter allow the automatic reclosing after a trigger, thus offering the most adequate solution for public lighting, cash machines, refrigeration chambers, traffic lights, etc. Its design characteristics guarantee maximum security and continuity of the electrical service, avoiding unwanted tripping.

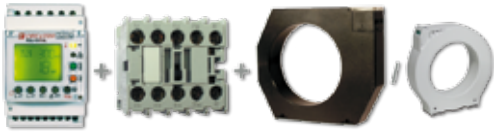
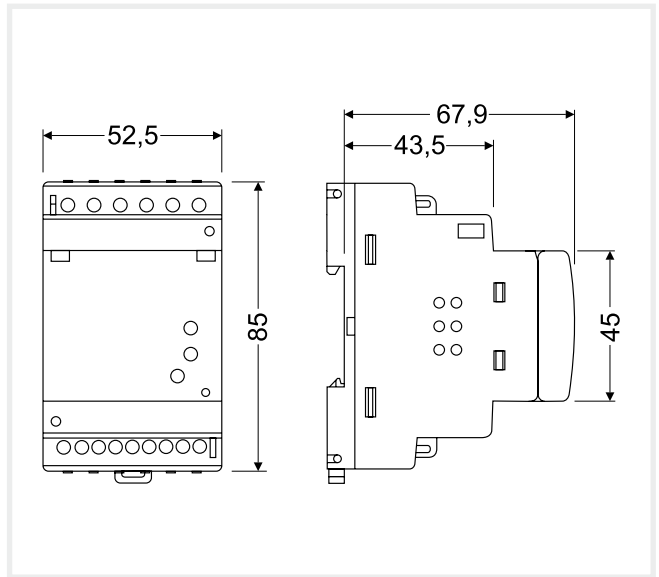
## Features

<b>Protection</b>	Earth Leakage
Class	A superimmunized
Measurement	True root mean square (TRMS)
Sensitivity	Programmable from 30 mA ... 30 A
Delay	Programmable from 20 ms ... 10 s Inverse curve: instantaneous or selective
Earth leakage transformer	External, <b>WG Series (WG / WGS / WGC)</b>
Test and Reset	With built-in button
Associated circuit breaker	Contactor
$I_n$ and no. of poles	Defined by the contactor used
Circuit breaker control	With a switched relay
<b>Reclosure</b>	Earth Leakage
No. of reclosures	Programmable: Depending on the reclosing sequence
Time between reclosures	Programmable: 1 ... 900 s
Partial counter reset time	Programmable
<b>Relay signaling</b>	
LED	<ul style="list-style-type: none"> <li>• Presence of voltage</li> <li>• Leakage trip</li> <li>• Interlocking / reclosing status</li> </ul>
Display	Backlit LCD
Remote signaling (outputs)	Lock status indicator relay
Remote Control (inputs)	ON / OFF
<b>Features</b>	
Auxiliary power supply	230 Vac ( $\pm 20\%$ ) 50 / 60 Hz
Output contacts	250 Vac, 6 A
Operating temperature	-10 ... +50 °C
<b>Construction features</b>	
Fixing	DIN rail
Dimensions	3 modules
Weight	236 g
Degree of protection	IP 20 Terminals, IP 41 back panel
<b>Standards</b>	
<b>IEC 61008-1, IEC 755, IEC 255-5</b>	

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Dimensions

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References

Reclosing element	Communications	$I_n$ (A)	Delay (s)	Type	Code
Contactor	-	0,03 ... 30	0,02 ... 10	<b>RGU-10 RAL</b>	<b>P24622</b>
Contactor	RS-485	0,03 ... 30	0,02 ... 10	<b>RGU-10 C RAL</b>	<b>P24662</b>

Connections

