

# WRU-10

## Earth leakage relay with built-in transformer and display



### Description

Electronic earth leakage protection relay with built-in 28 mm transformer, forming a single unit. Super-immunised type-A, with high-frequency current filtering and high immunity. True root mean square (TRMS) measurement.

- Display with LEDs and display:
  - Earth leakage protection parameters.
  - Protection trip current.
  - Protection status messages, etc.
- Unit with three programmable contact output relays, one switched and two single. The main relay is for the protection associated with the contact or trigger relay of the circuit breaker while the two others are for the prealarm.
- It also has a voltage-free input for external tripping and rearming.
- Assembly on **DIN 46277** rail (**EN 50022**), 3 modules.
- Connection by pluggable terminal strips.

### Applications

**WRU-10** relays enable smart differential protection. Their design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping.

Viewing the instantaneous leakage value on the display, together with the prealarm indicators, makes it possible to obtain information on the status of lines to be protected, and to perform adequate preventive maintenance.

### Technical features

<b>Protection</b>	Class	A super-immunised
	Measurement	True root mean square (TRMS)
	PROGRAMMABLE sensitivity	0.03...3 A, amplifiable to 30 A using SETUP
	PROGRAMMABLE delay	Time defined: 0.02...1 s, amplifiable to 10 s using SETUP. Inverse curve: INSTantaneous / SElective. ( <b>IEC 60947-2-M</b> )
	Test and reset	Using buttons T and R
	Remote control	Optional external TEST, tripping by voltage-free input.
	Associated circuit breaker	Contact or circuit breaker with trigger coil
	LED indicators	Power supply voltage Leakage trip Prealarm
	Display	Protection parameters Leakage/trip current reading. TEST statuses and external trip.
	Circuit breaker control	NO/NC changeover contact relay, depending on the circuit breaker used
<b>Electrical features</b>	Auxiliary power supply	230 Vac ( $\pm 30\%$ ) 50 / 60 Hz
	Trip/prealarm output contacts	250 Vac, 5 A / 230 Vac, 250 mA
	Operating temperature	-20 ... +70 °C
<b>Mechanical features</b>	Attachment	<b>DIN 46277</b> rail ( <b>EN 50022</b> )
	Dimensions	3 modules
	Weight	168 g
	Protection degree	IP 20 on terminals, IP 41 on back panel
	<b>Standards</b>	<b>IEC 60947-2-M, IEC 60755, IEC 62020, IEC 61008, UL1053</b>

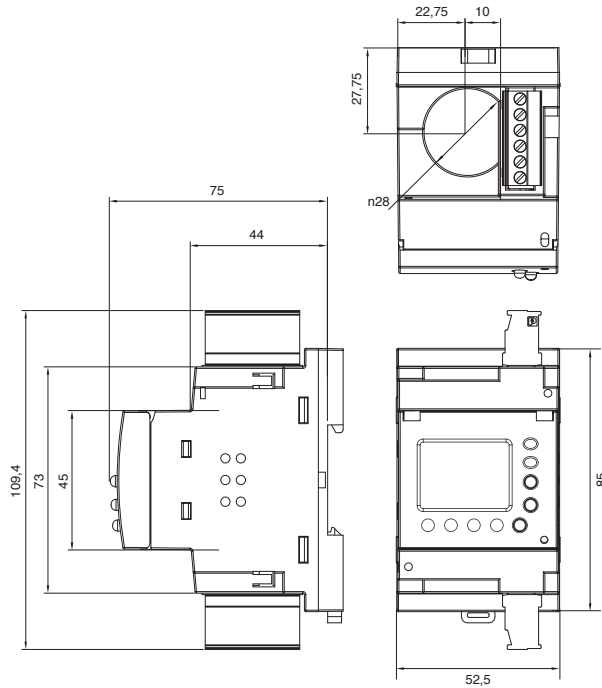
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### References

Type	Code	Net Section	$I_{\Delta n}$ (A)	Delay
WRU-10	P14035	Ø 28 mm	0.03...3 A amplifiable to 30 A	0.02...1 s amplifiable to 10s Inverse Curve: INS/SEL

### Dimensions



### Connections

