



## WGB-80

WGB-80, residual current transformers for type-B residual current relays

Code: P11B54.

- > Usefull diam.(mm): 80.5
- >  $I_{\Delta n}$  (A): 0.03 ... 3 A
- > Max. Current (A): 250

### Description

The residual current transformers of the **WGB** range are especially designed to protect and monitor B-type loads (**IEC 60755**), and are suitable for measuring AC, DC and pulsating leakage currents.

The range of **WGB** differential transformers is designed for use with the **RGU-100B** or **CBS-400B** electronic relays, which give them the associated trip current (sensitivity).

The transformers have an Ethernet port to connect them using this type of cable with the relay, which transmits all the readings and other information on the protected or monitored line.

### Application

Residual current protection or monitoring of single-phase or three-phase electric loads in alternating current with direct current components, with frequencies of up to 1 kHz, such as:

- Variable speed drives.
- UPS.
- Photovoltaic Facilities.
- Electrical Vehicle Charging.
- Active filters.



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### Specifications

#### Electrical characteristics

Cable: Connector type	RJ 45
LC load current (RMS)	RJ 45

#### Mechanical characteristics

Size (mm) width x height x depth	140 x 123.5 x 58 (mm)
Weight (kg)	0,525

#### Environmental characteristics

Thermal Class	150 °C
Storage temperature	-20 ... + 70 °C
Working temperature	-10 ... +50 °C

#### Specific technical characteristics of current sensors

Sampling frequency	50 ... 1 kHz
Maximum current	250 A
Inner diameter Ø (mm)	80,5

#### Current measurement circuit

Maximum current	$\leq 750 \text{ V} \sim, \leq 750 \text{ Vcc}$
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#### Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 60947-2-M

#### Measurement accuracy

Phase current measurement	30 mA ( $\pm 2$ mA) / 100 mA ( $\pm 5$ mA) 300 mA ( $\pm 20$ mA) / 500 mA ( $\pm 20$ mA) / 1 A ( $\pm 200$ mA) / 3 A ( $\pm 200$ mA)
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#### WGB

Residual current transformers for type-B relays

CODE	TYPE	Usefull diam.(mm)	I $\Delta$ n (A)
P11B52.	WGB-35	35.5	0.03 ... 3 A
P11B53.	WGB-55	55.5	0.03 ... 3 A
P11B54.	WGB-80	80.5	0.03 ... 3 A
P11B55.	WGB-110	110.5	0.03 ... 3 A

Only for relays type RGU-100B and CBS-400B



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### Dimensions

