

	Non-Adjustable		Adjustable							
	HR500	HR502	HR510	HR520	HR522	HR523	HR525/HR534	HR440	HR441	
Supply Voltage ~50/60Hz	220-240V									
Residual Voltage ~50/60Hz	500V Maximum									
Power Absorbed	3VA	5VA								
Output	Volt Free Contacts									
Contact Rating	6A / 250V AC-1									
Sensitivity $I_{\Delta n}$	30mA	300mA	30mA / 100mA / 300mA / 500mA / 1A / 3A / 10A		500mA / 1A / 3A / 5A / 10A / 20A / 30A		30mA / 100mA / 300mA / 500mA / 1A / 3A / 5A / 10A / 30A		30mA / 100mA / 300mA	
Instantaneous / Time Delay	Instantaneous		Instantaneous or Time Delay 0.1 - 0.3 - 0.4 - 0.5 - 1 - 3 seconds		Instantaneous or Time Delay 0.1 - 0.2 - 0.25 - 0.3 - 0.4 - 0.5 seconds		Instantaneous or Time Delay 0.02 - 0.1 - 0.3 - 0.4 - 0.5 - 1 - 3 - 5 - 10 seconds		Instantaneous or Time Delay 0.1 - 0.3s - 0.5s - 0.75s - 1s	
Torroid Withstand Capacity	50kA / 0.2s									
Distance between Torroid and Relay	50 Meter Maximum									
Relay Cable Connection • Rigid • Flexible	1.5mm <sup>2</sup> to 10mm <sup>2</sup> 1mm <sup>2</sup> to 6mm <sup>2</sup>									
Torroid Cable Connection • Rigid • Flexible	1.5mm <sup>2</sup> to 4mm <sup>2</sup> 1mm <sup>2</sup> to 2.5mm <sup>2</sup>									
Relay • Working Temperature • Storage Temperature	-10°C to +55°C -25°C to +40°C		-5°C to +55°C -25°C to +40°C							
Torroid • Working Temperature • Storage Temperature	-10°C to +70°C -40°C to +70°C		-10°C to +70°C -40°C to +70°C							

### Main Characteristics

#### “Reset” Button

When pressed, the output remains switched and return to normal is obtained by either: by pressing the “reset” clear pushbutton or cutting off the power supply. If the “reset” button is not pressed the device remains in the fault position.

#### Test Button

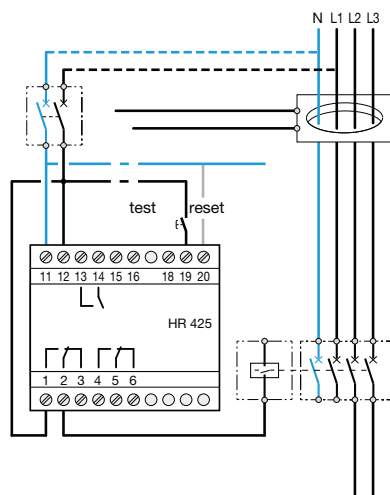
Pressing the test button allows a fault simulation which operates the relay and the output contacts. The fault level display is shown by an LED on the front of the product.

#### $I_{\Delta n}$ Selector

Sensitivity setting: 0.03A instantaneous  
0.1A/0.3A/1A and 3A time delay

#### Time Delay Selector

Adjustable time setting - instantaneous / 0.13s / 0.3s / 1s and 3s



### Sealable Settings

A sealable cover prevents interference once the settings have been made.

#### Standard Output (1 C/O contact)

Switching to state 1 on:

- Failure of the core/relay connection
- Fault current in the monitored installation

#### Positive Safety Outlet (1 C/O contact)

Switching to state 1: Switching on the power

Switching to state 0: Failure of the core/relay connection  
fault current in the monitored installation  
failure of relay supply  
internal failure of relay

Optical scale display by 5 LEDs of the fault in % of  $I_{\Delta n}$

Optical scale display by (5 LEDs) of the fault in % of  $I_{\Delta n}$

Common pin 6:

State 1 : output terminal 8

State 0 : output terminal 4

1. Reset push button
2. Test push button
3. Fault signal LED
4. Device on indicator
5. Sensitivity setting
6. Time delay setting
7. Standard output
8. Safety output
9. Prealarm output
10. Remote reset
11. Optical scale

