- General characteristics
- ▶ Dimensions
- Connections
- ▶ Principles



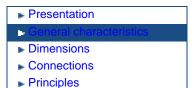


Selling points of the range

- Displays the current value and the preset value on LCD
- Controls AC and DC signals (automatic detection)
- Selectable overload or underload mode
 Threshold and hysteresis can be adjusted separately
- Memory function in case of fault
- Delay on threshold crossing

Part number characteristics	84 871 309
Measurement ranges	0.1 to 10 A
Supply voltage	120 V AC
Measurement ranges	
Input resistance	
Maximum permanent current	E1-M:2 A E2-M:10 A E3-M:14 A
Peak overload <1 s at 20 ^O C	
Max. line voltage	
Product available	made to order







84 871 309 : Control with LCD display - Voltage - Current - HDU \ HDI voltage or current monitoring - HDI - H 230, 120, 24 V AC - 50 / 60 Hz 24 V DC pas d'isolation galvanique protégée contre les inversions de polarité Supply voltage Operating range 0.85 to 1.10 x Un 3 VA at 230, 120 and 24 V AC Maximum power consumption 1 W at 24 VDC Immunity from micro power cuts 10 ms 500 ms Delay on pick-up Category III Degree of pollution 2 according to IEC 664-1 VDE 0110 : 4 KV/2 Insulation coordination 1 AgCdO changeover relay Output 5 A - 250 V Minimum current 100 mA 5 x 10**6** Mechanical life (operations) 360 operations / h Maximum rate at full load AC 12 : 1250 VA - 10⁵ operations AC 15 : cos\(\phi = 0.3 \) - 6000 operations DC 13 : L/R = 300 ms - 6000 operations Electrical life (A) Delay on threshold crossing 0.1 to 3 sec ± 10 % Relay status OVER or UNDER mode Memory function Display on LCD Type of signal (AC or DC) Measurement overflow Class of protection (529) - Term. block Protection class (IEC 60529) - Panel-mounted IP 20 IP 40 Protection class (IEC 60529) - Casing IP 50 Material housing Self-extinguishing Weight (g) 160 2 x 1.5 mm² with ferrule Terminal capacity 2 x 2.5 mm² without ferrule Tightening 0.6 mN max. - 20 🛅 + 60 **0**C Temperature limits used (°C) Storage temperature range (°C) -30 →+70 ° Relative humidity (no condensation) 93 % (+2 % -3 %) CEI 255.5, 2.5 KV / 1 min / 1 mA / 50 Hz Dielectric strength V (rms) Adjustable from 5 to 50 % of threshold Hysteresis Frequency of measured signal 40 🚹 500 Hz Threshold display accuracy ± 10 % Repetition accuracy (with constant parameters) ±0.1 % Drift Temperature ±0.05 % / °C Drift Voltage <= 0.5 %

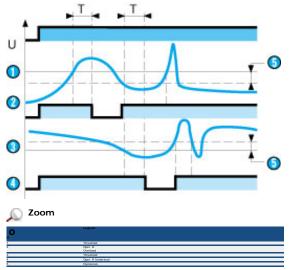
- Presentation
- General characteristics
- ▶ Dimensions
- Connections

-

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84 871 309 : Control with LCD display - Voltage - Current - HDU \ HDI voltage or current monitoring - HDI - H

Control of voltage (HDU) or current (HDI) without memory



Operating principle

These devices are designed to control an AC or DC electrical signal : voltage using HDUs, current using HDIs.

The threshold and hysteresis can be adjusted separately via two potentiometers on the front face. Before powering up the device, the operating mode should be selected using two dipswitches located under the device (with/without memory, over/under value). The mode is validated when power is applied to terminals A1 - A2.

The signal to be monitored is connected between terminals E1, E2, or E3 (depending on the range) and terminal M.

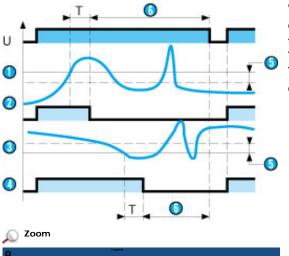
When the value of the controlled signal, AC or DC, reaches the threshold set on the front face, the output relay opens (failsafe) at the end of time delay T. It closes immediately when the signal goes below (or above in under value mode) the threshold minus hysteresis (plus hysteresis in under value mode).

Notes

The threshold crossing time delay T, which can be adjusted on the front face from 0.1 to 3 sec, ensures immunity to transients and other inferference, thus preventing spurious triggering of the output relay.

In "under value" mode, the absolute value of the hysteresis cannot be more than the maximum of the measurement range.

Control of voltage (HDU) or current (HDI) with memory



When the threshold is reached, the output relay opens at the end of time-out T and remains in that position.

To reset the relay, the supply must be cut. This operating mode enables the detection of over or under values of short duration.

Oper. R Underload	
Hysterenis Memory	