

AMPLIFIER RELAY ES 2001



- Reed contact protection
- Output: 2 floating changeover contacts
Voltage free
Switching power 5A / 250 V AC / 500 VA
- Function: Regulation ON/OFF
- Adjustable timers

PRINCIPLE

All Reed contact suffers of inductive or capacitive charge due to starting pump or motors. A safe protection is to add between the contacts and the engine a relay amplifier ES 2001. Both timers and hysteresis (between on/off relay switching) are adjustable. The relay is easily mounted on DIN rail. The LED status indicators give to the operator the information on regulation. This relay ES 2001 is also perfect for liquid detection or liquid level regulation: please see documentation 530-01.

APPLICATIONS

- Reed contact, models included in BRK60, BW60, CNL, MNR6, MNR7 etc.
- Flow switch, such as ZE951 (IDP – PDP), CDP etc.

Also on level control for electrically conductive liquid media:
Minimal or maximal levels – Dosing, flow detection and alarm pump control, solenoid valve control, and fluid detection in a pipe.
With appropriate electrodes for use as limit transducer in: Water, wastewater – Acids, lye – Brines, etc.

TECHNICAL FEATURES

- Main power supply: 230 V AC $\pm 10\%$ – 50/60 Hz (standard) – other on request
- Consumption: 2 VA
- Working temperature: Maximal, +45°C
- Housing: IP40 – cabinet, tropicalized version, on request
- Mounting: Rail DIN 46277
- Galvanic insulation: Between main line and electrodes circuit
- Sensitivity: 2 adjustable ranges, 1...70 kOhm and 5...150 kOhm
- Switching power: 500 VA / 250 V AC / 5 A – 1 A / 125 V DC / 40 W
Screw connectors for reverse contact
- Timers, adjustable: t = 0.5 to 5 s for increasing level
0.5 t for decreasing level
- Hysteresis: approx. 10% of adjusted sensitivity
- Electrodes circuit: 6 V AC, < 1.5 mA
- Indicators: 1 operating LED, 1 switching status LED

CODE NUMBERS AND REFERENCES

Code	Reference	Designation
530 200	ES 2001 /230	Main supply 230 V - 50/60 Hz
530 210	ES 2001 /115	Main supply 115 V - 50/60 Hz
530 220	ES 2001 /48	Main supply 48 V - 50/60 Hz
530 230	ES 2001 /24	Main supply 24 V - 50/60 Hz
530 252	ES 2001 /12 V DC	Main supply 12 V DC
530 254	ES 2001 /24 V DC	Main supply 24 V DC

WIRING

Input reed contact on 5 and 6 screw connectors
Relay testing with a shunt between 5 and 6 screw connectors

