

# Amplifier relay ES 2001

- Protection of Reed contact
- Outputs: 2 change over contacts, voltage free; 5A / 250 V AC / 500 VA
- Status relay display
- Regulation between two trigger points
- Adjustable time delay



## PRINCIPLE

All Reed contacts suffer of inductive or capacitive charge due to starting pumps or motors, leading to early aging and malfunction.

A solution is to protect Reed contacts with a relay amplifier, to insure greater switching power and lifetime.

ES 2001 amplifies commutation signals on low current and low voltage detection loops, e.g. by use of Reed contacts. Mounting: on DIN rail for easy integration in industrial cabinets. On the front a LED displays the output relay status. This relay ES 2001 is also perfect for liquid detection or liquid level regulation (documentation 530-01).

## APPLICATIONS

ES 2001 relays are designed for:

- Reed contact, models included in BRK60, MNR6, MNR7 etc.
- Flow switch, such as Z42 (IDP - PDP), CDP etc.

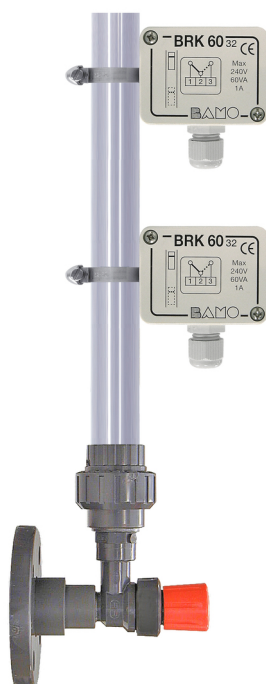
Each relay allows a regulation between two trigger points. For instance to fill in or emptying a tank by automation of a pump (or a valve). Each relay has 2 outputs change over contacts, potential free to allow driving for example, a power loop or an automate.

## TECHNICAL FEATURES

Power input	230 V AC $\pm 10\%$ , 50-60 Hz (standard); others on request
Consumption	2 VA
Ambient temperature	-15...+45 °C
Housing	IP40 cabinet
Galvanic insulation	Between main line and electrodes circuit
Mounting	Rail DIN 46277
Outputs	2 changeover contacts AC: 250 V, 5 A, 500 VA / max. DC: 125 V, 1 A, 40 W / max.
Time delay	Adjustable from $t = 0.5$ to 5 s for increasing level, $1/2 t$ for decreasing level
Measuring loop	6 V AC; < 1,5 mA

## CODES AND REFERENCES

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



# BAMO MESURES

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Amplifier relay  
ES 2001

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