STEP CONTROLLER WITH TWO RELAYS **ACTUATED BT TWO SWITCHES**

ACR 328 Eng.

· Converts two On-Off signals into two SPDT relay signals

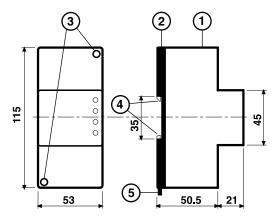
• Power supply 230 V ~; DIN rail mounting

1. APPLICATION

Designed to convert two On-Off signals (including optisolated) into two SPDT relay signals. Each relay has two control inputs either of which can be selected by the external inputs selector.

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2. OVERALL DIMENSIONS



1 - Protective cover for electronic components

2 - Base with transformer, relay and terminal blocks

3 - Screws for securing base and cover 4 - DIN rail securing elements

5 - DIN rail release lever

4. TECHNICAL DATA

Power supply Frequency Consumption Protection Radio disturbances Vibration test Voltage-free output contacts Maximum switched volta Maximum switched curre Construction standards It	ge 250 V ~	Enclosure Mounting Materials: Base Cover Ambient te Operati Storage Ambient hu Weight
Construction standards It	alian Electrotech. Committee (CEI)	vveight

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5. INSTALLATION

ACR 328 must be installed in a dry location that respects the ambient conditions given under 5. TECHNICAL DATA. If installed in a location classified as "Hazardous" it must be installed in a cabinet for electrical equipment constructed according to the current regulations for the class of danger concerned. The controller can be mounted on a DIN rail and housed in a standard DIN enclosure.

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STEP CONTROLLER COSTER ACR 328 (1):a :b Off \bigcirc \bigcirc \bigcirc \bigcirc (1) (2) (3) (4)

1 - Relay 1 LED : - Lit when relay energised - Unlit when relay de-energised 2 - Relay 2 LED : - Lit when relay de-energised - Unlit when relay de-energised

3 - LED for selector inputs C a/b:

- Lit : Inputs C1a and C2a in use - Unlit : Inputs C1b and C1b in use

4 - Power supply LED

DIN 3E module on DIN 35 rail

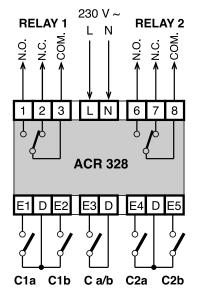
> NYLON ABS

0 ... 45°C – 25 ... + 60°C Class F DIN 40040 0.31 kg





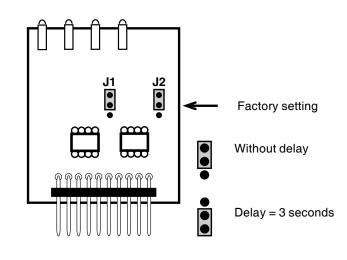
6. WIRING DIAGRAM



C1a – On-Off switch for control Relay 1 C1b – On-Off switch for control Relay 1

- C a/b Selector choice inputs :
 - Open = Inputs C1a and C2.a in use
 - Closed = Inputs C1.b and C2.b in use
- C2a On-Off switch for control Relay 2
- C2b On-Off switch for control Relay 2

7. RELAY DELAY PROGRAMMER



J1 – Programmer delay Relay 1 J2 – Programmer delay Relay 2

8. ELECTRICAL CONNECTIONS

Proced as follows :

- Separate base from cover after loosening the two securing screws (2.3).
- Mount the base on the DIN rail and check that it is firmly anchored by the securing elements(2.4).
- Carry out the wiring according to the diagram and in compliance with current electrical regulations and using : – 1.5 mm² cables for power and relay control outputs,
 - 1.5 mm² cables for power and relay
 1 mm² cables for input switches.
- Apply power (230 V $_{\sim}$) and check its presence across terminals L and N.
- Remove power, replace cover on base/terminal block and secure it with the two screws supplied (2.3).

You are advised not to insert more than two cables in a single terminal of the controller and, if necessary, to use an external junction box.

9. OPERATION

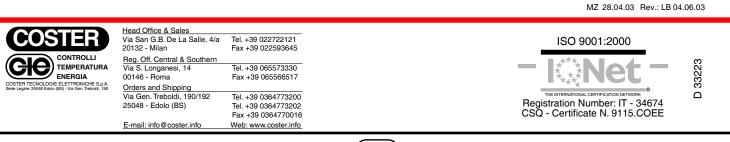
The two relay outputs are controlled by two input switches.

Relay 1 by C1a or by C1b: switch open = relay de-energised (1-3 open; 2-3 closed) switch closed = relay energised (1-3 closed; 2-3 open) Relay 2 by C2a or by C2b: switch open = relay de-energised (6-8 open; 7-8 closed) switch closed = relay energised (6-8 closed; 7-8 open)

The choice between the use of switches "a" or "b" is made with the inputs selector C a/b :

With inputs selector C a/b open :	Relay 1 controlled by switch C1a
	Relay 2 controlled by switch C2a
With inputs selector C a/b closed :	Relay 1 controlled by switch C1b
	Relay 2 controlled by switch C2b

The action of the two output relays can be immediate (factory setting) or delayed by about three seconds (see 7.RELAY DELAY PROGRAMMER) to avoid operations due to electronic disturbances.



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