

D 651

01.03.00



CONVERTOR OF THREE-WIRE MODULATING SIGNAL TO 0 ... 10 V – ANALOGUE SIGNAL

CSC 304 Eng. C1

- 1 three-wire modulating input, voltage-free or powered by 24 V~
- 1 analogue 0...10 V- output
- Power supply 24 V~, DIN rail mounting

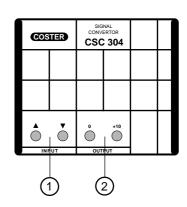
1. APPLICATION

Converts three-wire modulating signal to 0...10 V – analogue signal

2. OVERALL DIMENSIONS

- 1 Protective cover for electronic components
- 2 Base with transformer, relay and terminal blocks
- 3 Screws for fixing cover to base
- 4 DIN rail securing elements
- 5 DIN rail release lever

3. FACIA



- 1 Three-wire input LED
- 2 Output 0...10 V- LED

4. TECHNICAL DATA

Power supplly
Frequency
Consumption
Protection
Radio disturbances
Vibration test
Construction standard
Case
Installation

50V... 60 Hz 3 VA IP40 VDE0875/0871 with 2g (DIN 40 046) Italian Electrotechnical Comm. (CEI) DIN 3E module on DIN 35 rail

24 V~ ± 10%

Materials:
 base
 cover
Ambient temperature:
 operation
 storage
Ambient humidity
Weight
Input signal
Output signal

NYLON ABS 0 ... 45 °C - 25 ... + 60 °C Class F DIN 40040 0.31 kg three-wire modulating 0 ...10V – analogue

5. INSTALLATION

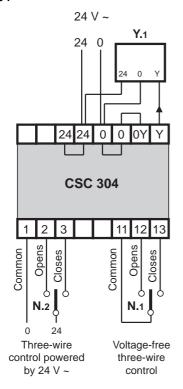
CSC 304 must be sited in a dry space which meets the relevant ambiental conditions included under 4. Technical Data. If sited in spaces classified as "Dangerous" it must be installed in cabinets for electrical appliances constructed according to the standards in force for the danger class involved. The unit may be installed on DIN rail or in DIN modular enclosure

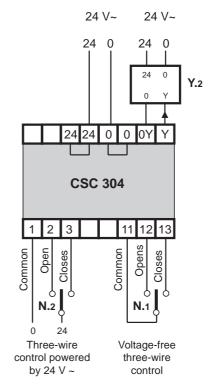




6. WIRING DIAGRAMS

6.1 Control regulating device with power supply in parallel 6.2 Control regulating device with separate power supply to CSC 304





N.1 - Voltage-free three-wire control (as alternative to N.2)

N.2 – Three-wire control, powered by 24 V~(as alternative to N.1)

Y.1 – Control device with parallel power supply (as alternative to Y.2) with link 0Y-Y.

Y.2 – Control device with separate power supply (as alternative to Y.1) without link 0Y-Y.

7. WIRING

Proceed as follows:

- Separate base and cover
- Mount base on DIN rail and check that securing elements (2.4) hold it firmly in place.
- Carry out the wiring according to the diagram and in respect of the regulations in force. Use following cable types:

 1,5 mm² for power supply
 - 1 mm² for input and output signals
- Switch on power (24 V~) and check the voltage across terminals 24 and 0.
- Switch off power, replace cover on base and secure it with the two screws supplied (2.3).

It is recommended not to insert more than two cables in a single terminal of the controller and, if necessary, to use external junction boxes.

8. OPERATION

CSC 304 converts a three-wire modulating signal coming from a controller :

- voltage-free (N.1 - terminals 11-12-13)

or

powered by 24 V~ (N.2 - terminals 1-2-3)

in an analogue 0...10 V-signal for control of:

- a regulating devices Y.1 powered by 24 V ~parallel to CSC 304 (with link 0Y-Y).
- a regulating device Y.2 powered by 24 V~ autonomous (without link 0Y-Y).

Warning!

The control regulator N must be configugured with ACTUATOR RUN TIME = 120 seconds



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