

SIGNAL CONVERTOR C-BUS "SLAVE" TO RS 232

C ← BUS

RS 232

CCB 332 Eng.



- Converts RS232 serial signal to parallel C-Bus Slave signal
- Permits connecting a device with RS232 to a C-Bus communication line
- Maximum RS 232 and Slave C-Bus speed: 9600 baud
- Power supply: 230 V~; installation on DIN rail

WARNING: in order to connect any NON-COSTER device to COSTER Telemangement programs it is necessary to have details of the communication protocol.

The possibility of establishing communication depends on the characteristics of the device in question and must be examined case by case.

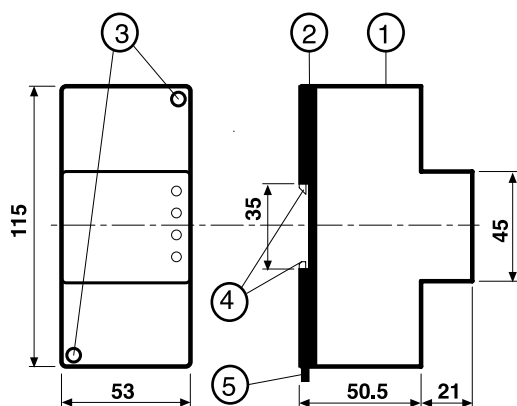
1. APPLICATION

CCB 332 permits the insertion of a device with serial RS 232 communication in a C-Bus parallel communication network.

2. INSTALLATION

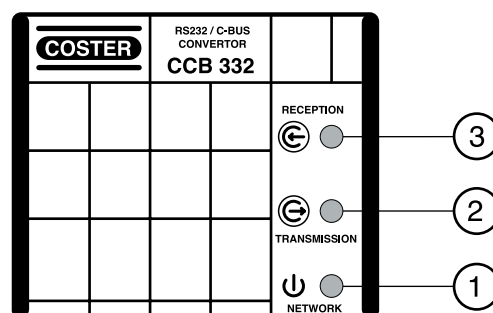
CCB 332 must be installed in a dry location that respects the ambient conditions given under 5. TECHNICAL DATA. If installed in a location classified as "Hazardous" it must be installed in a cabinet for electrical equipment constructed according to the regulations in force for the class of danger concerned. The controller can be mounted on a DIN rail and housed in a standard DIN enclosure.

3. OVERALL DIMENSIONS



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

4. FACIA



- 1 - Power supply LED.
- 2 - Transmission data LED: indicates that data have been transmitted to devices operating with RS232 communication system.
- 3 - Reception data LED: indicates that data have been received from devices operating with RS232 communication system.

5. TECHNICAL DATA

| | | | |
|------------------------|---------------------------------|--|--|
| Power supply | 230 V ~ ± 10% | Materials: | |
| Frequency | 50...60 Hz | - base | Nylon |
| Consumption | 2 VA | - cover | ABS |
| Protection | IP40 | Transmission data: | |
| Radio disturbances | VDE0875/0871 | - Maximum transmission speed (Baud rate) | 9600 bps |
| Vibration test | with 2g (DIN 40 046) | - RS232 serial ports | 1 |
| Construction standards | Italian Electr. Committee (CEI) | - C-Bus parallel ports | 1 |
| Case | DIN 3E module | Auxiliary power supplies: | |
| Enclosure | on DIN 35 rail | - output 5- | + 5V – stabilised 20 mA max. |
| Ambient temperature: | | - output V- | + 8...12 V– non stabilised 20 mA max. |
| - operation | 0...45 °C | Weight | 0.270 kg |
| - storage | - 25...60 °C | | |
| Ambient humidity | class F DIN 40040 | | |

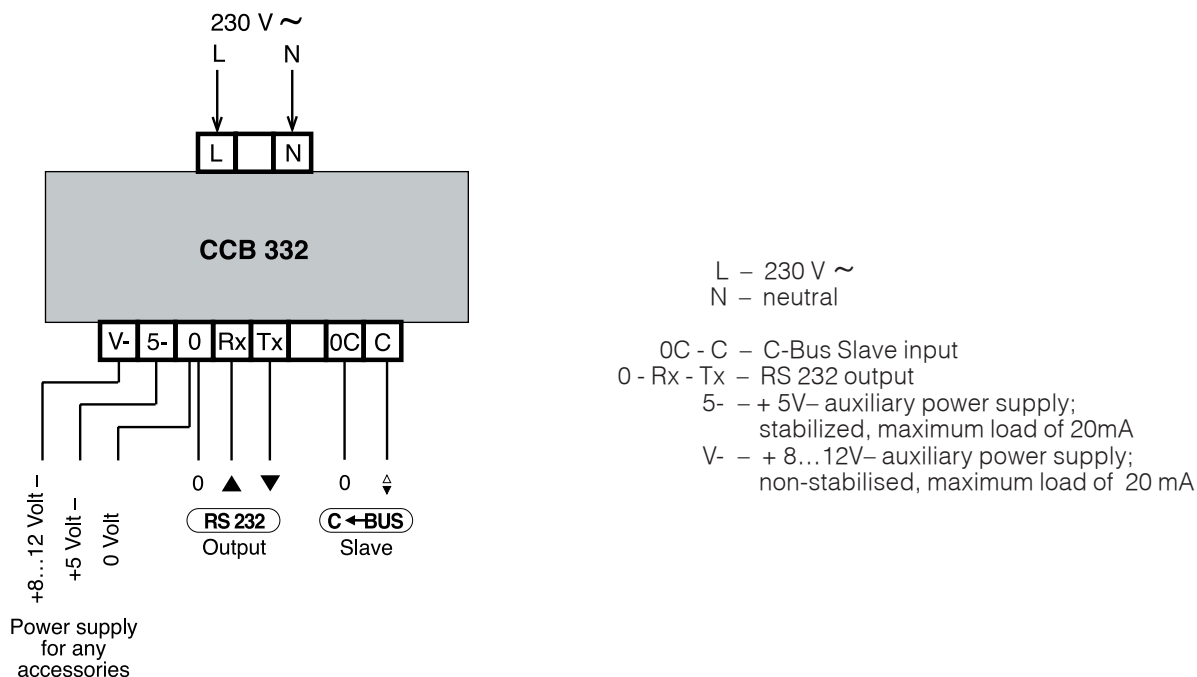
6. ELECTRICAL CONNECTIONS

Proceed as follows :

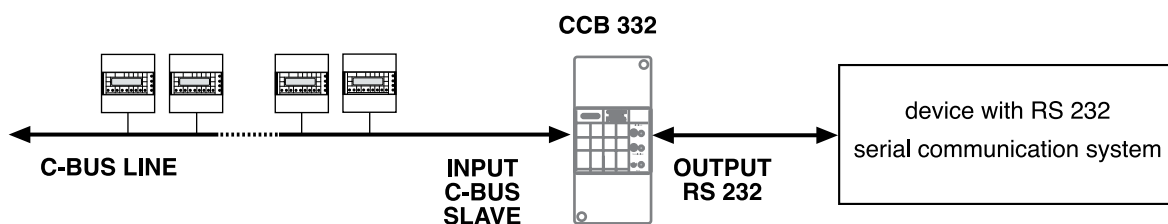
- Separate base and cover after having removed the securing screws (3.3),
- Mount the base on the DIN rail and check that the securing elements (3.4) anchor it securely,
- Make the electrical connections strictly according to the diagram and in respect of the safety regulations in force using the following cables:
 - 1.5 mm² for the power supply
 - 1...1.5 mm² per il C-Bus
 - 0.75 mm² (approx.) for RS 232; maximum length 15 metres,
- Switch on power (230 V~) and check its presence at terminals L and N; then check that the LED (4.1) is lit,
- Switch off power, replace the cover on the base and secure it with the two screws (3.3) supplied.

It is advisable not to insert more than two cables in a single terminal and, if necessary, to use an external terminal blocki.

7. WIRING DIAGRAM



8. TYPICAL OPERATING DIAGRAM



Maximum distance for the RS 232 line = 15 metres

Amendments to data sheet

| Date | Revision No. | Page | Section | Details of amendment | Firmware version | Software version |
|-------------|--------------|---------|---------|---|------------------|------------------|
| 14.03.06 AM | | 1 | | Addition of WARNING note on first page. | | |
| 09.02.10 AM | 01 | 1 and 2 | 5 and 8 | C-Bus transmission speed updated | | |



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