T 423
05.02.10 MZ
REV. 01

LOW POWER RS232 / C-BUS SIGNAL CONVERTOR

C←BUS

ACB 332 C1 Eng.

- **Converts RS 232 serial signal into parallel C-Bus signal**
- **Permits connecting RS 232 serial port of a PC to C-Bus communication line**
- **Velocità C-Bus fino a 9600 baud**
- **Power supply 230 V a.c. (or 240 V a.c. for UK market) ; DIN rail mounting**

CE

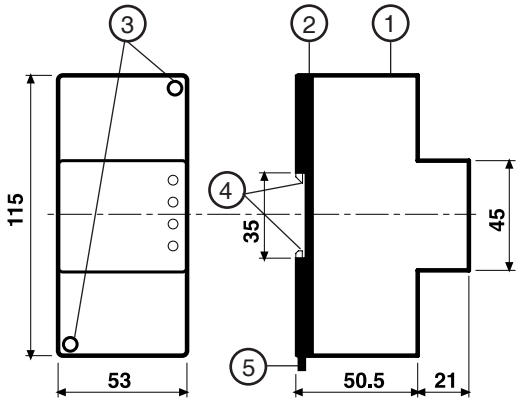
1. APPLICATION

Designed for connecting devices with RS232 serial port to a C-Bus transmission network.

2. INSTALLATION

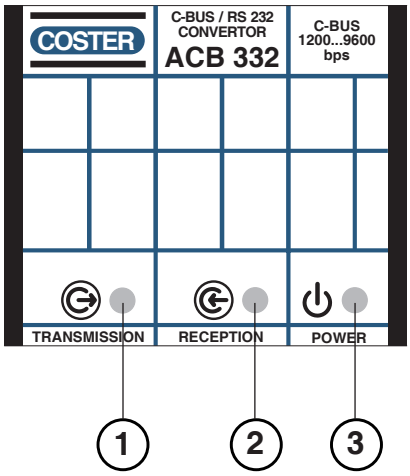
ACB 332 must be installed in a dry location that respects the ambient conditions given under 5.TECHNICAL DATA.
If installed in a location classified as "Hazardous" it must be installed in a cabinet for electrical equipment constructed according to the current regulations for the class of danger concerned.The 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 blocks
3 – Screws for securing base and cover
4 – DIN rail securing elements
5 – DIN rail release lever

4. FACIA



1 - Transmission data LED: indicates reception of RS232 data and its transmission to electronic devices has taken place.
2 - Reception data LED: indicates reception of reply from the electronic devices and its transmission to RS232 input has taken place.
3 - Power supply LED

4. WIRING

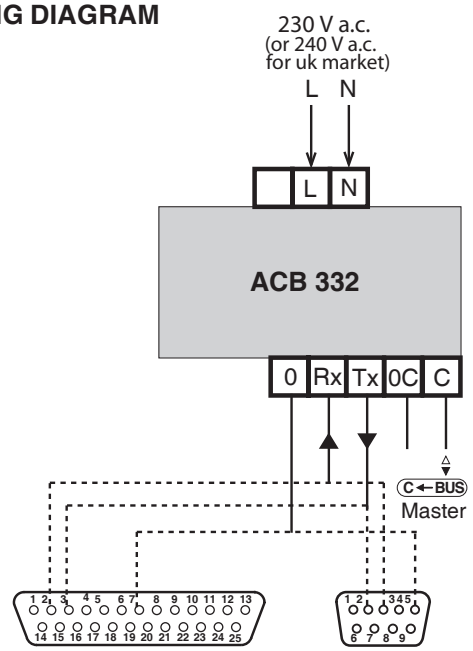
Proceed as follows :
- Separate base from cover having loosened the securing screws (3.3)
- Mount the base on the DIN rail and check that it is firmly anchored by the securing elements (3.4)
- Carry out the wiring according to the diagram and in compliance with current electrical regulations and using:
  – 1.5 mm² cables for power supply
  – 1 to 1.5 mm² cables for C-Bus
  – 0.75 mm² (approx) for RS232 (maximum length 15 meters)
- Apply power (230 V~) 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 (3.3).

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.

5. TECHNICAL DATA

Power supply	230 Volt a.c ± 10% or 240 V a.c. for UK market
Frequency	50...60 Hz
Consumtion	2.5 VA
Protection	IP40
Radio disturbances	VDE0875/0871
Vibration test	with 2g (DIN 40 046)
Construction standards	Italian Electrotech. Committee (CEI)
Enclosure	DIN 3E module
Mounting	on DIN 35 rail
Materials:	
Base	NYLON
Cover	ABS
Ambient temperature:	
Operating	0 ... 45 °C
Storage	– 25 ... + 60 °C
Ambient humidity	Class F DIN 40040
Data transmission:	
Transmission speed (Baud rate)	up to 9,600 baud
RS232 serial port	1
C-Bus parallel port	1
Weight	0.27 kg

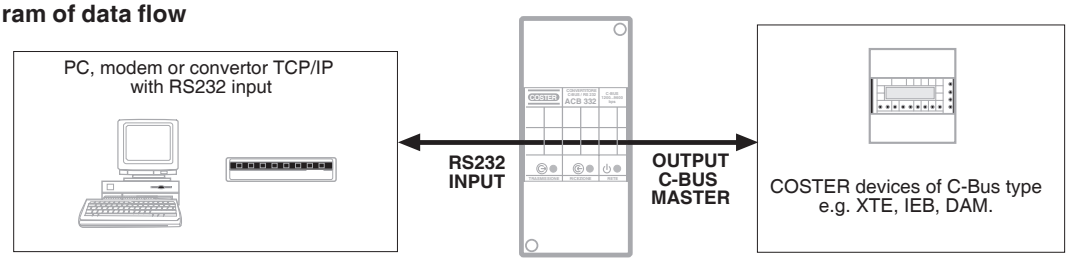
6.WIRING DIAGRAM



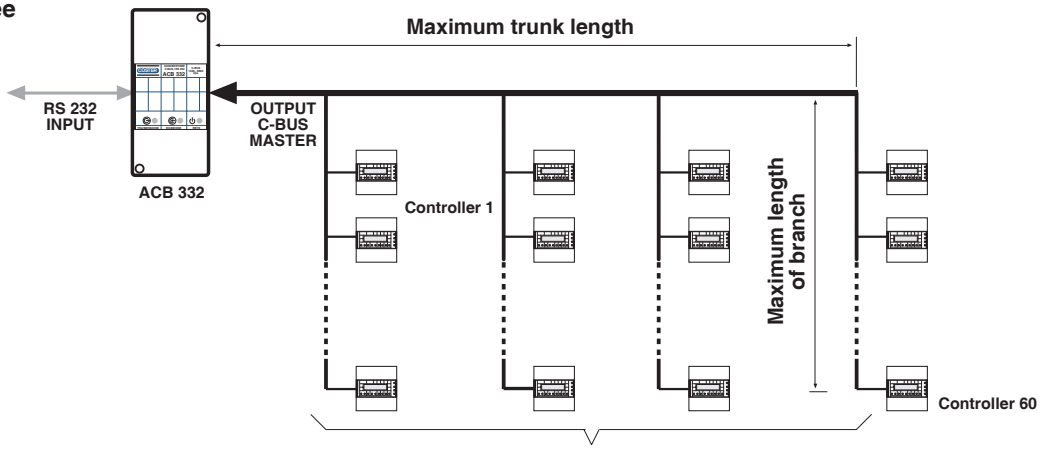
RS 232 Input direct to PC
(to connect a modem invert 2 and 3)

7. BASIC DIAGRAM OF DATA FLOW

7.1 Basic diagram of data flow



7.2 Connection tree



Total number of branches and controllers

TABLE VALIDS FOR ALL SPEED FROM 1200 TO 9600 BAUD

Max lenght TRUNK cross-section cables	Max lenght BRANCH cross-section cables	Max number BRANCHES	Max number controllers per BRANCH	Max number controllers TOTAL
1.000m 1,5 mm²	150m 1 mm²	5	25	125

Amendment to data sheet

Date	Revision No.	Page	Section	Details of amendement	Firmware version	Software version
05.02.10 AM	**01**	2	5 and 7	C-Bus transmission speed updated		

COSTER
CONTROLLI TEMPERATURA ENERGIA
COSTER TECNOLOGIE ELETTRONICHE S.p.A.
Sede Legale: 20132 Milano - Via San G.B. De La Salle, 4/a

Head Office & Sales
Via San G.B. De La Salle, 4/a Tel. +39 022722121
20132 - Milano Fax +39 022593645
Orders Fax +39 0227221239
Reg. Off. Central & Southern
Via S. Longanesi, 14 Tel. +39 065573330
00146 - Roma Fax +39 065566517
Shipping
Via Gen. Treboldi, 190/192 Tel. +39 0364773200
25048 - Edolo (BS) Tel. +39 0364773202

E-mail: info@coster.info Web: www.coster.eu

D 33229