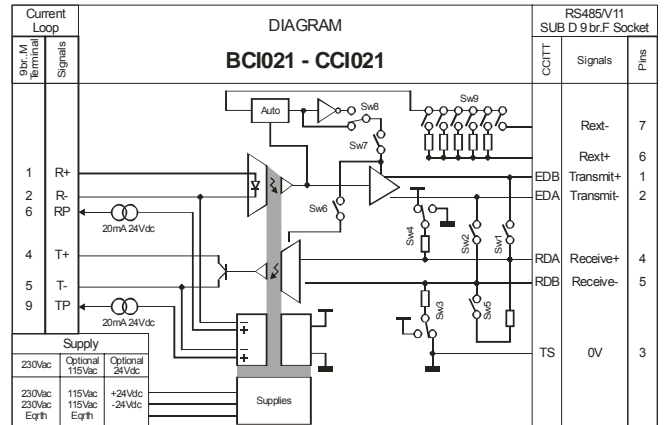


# Interface conversion and insulation

## RS485 or RS422 to Current Loop 0-20mA



### APPLICATIONS

- Bridge Current-loop network to RS485 network
- Multipoint network
- Interfaces insulation
- Remote offset
- Interfaces adaptation

### CONNECTION

- RS485 : SUB.D 9 female connector
- Current Loop : SUB.D 9 male connector
- Power supply : with cable (2,5 m)

### RS485 OR RS422 INTERFACE

- Differential interface
- Connection RS485 on 2 or 4 wires
- Internal 120Ω impedance adaptation
- Line reception prepolarization
- Up to 32 RS485 stations
- RS485 length connection :
  - up to 5km (3,1 miles) to 19,2 Kbauds in a light environment (attenuation max 12 dB)
  - up to 2,5km (1,5 miles) at 19,2 Kbauds in a noisy environment (attenuation max 6 dB)
- Automatic RS485 transmitter validation or by the signal "request to send" :
  - Automatic reverse validation : by detection of "START" polarity on RS232 data reception.
  - Driver invalidation on detection of "STOP" polarity during more than 1,5 time character. In this case the box must be configured according to the data rate

### CURRENT LOOP INTERFACE

- Switched 20mA current type interface
- 20mA in loop in idle state
- Optional 0mA in idle state
- 24Vdc voltage supply loop
- Up to 10 stations in a loop
- Connection length up to 1km (0,6 mile) at 19.2 Kbps

### FEATURE

- Signalization : TD, RD and supply
- Insulation RS485/CL : 1500Vrms
- Insulation : 500Vdc if power 24Vdc
- Ratio of distortion < 10 % at 19,2 Kbps
- Housing : plastic compact housing
- Color : black
- Dimensions : 178 x 132 x 36 mm,
- Weight : 0,6Kg,
- Power supply : 230Vca +10, -15 %, 50/60 Hz
  - 110Vac (in option)
  - 24Vdc ±10% (in option)
- Ambient temperature : -10°C to +55°C
- Temperature storage : -25°C to +55°C
- Humidity : 5 to 95 % without condensation

### CHOICE OF CONFIGURATION

- Standard : 20mA in idle state
- Possibility : 0mA in idle state
- Connection on 2 or 4 wires
- On 2 wires connections type, natural local echo can be inhibited or not, by invalidation of the receiver during transmitter validation,
- Internal 120Ω impedance adaptation or not
- Rate choice : 1200 to 19200 bauds

### ORDER REFERENCES

#### Table case :

- BCI021 : 230Vac
- BCI021-C : 24Vdc ±10%
- BCI021-110 : 110Vac

#### RCI014 rack cards :

- CCI021 : 230Vac
- CCI021-C : 24Vdc ±10%
- CCI021-110 : 110Vac

### OTHER REFERENCES

#### DIN rail case :

- CPN021

#### RS485 repeater :

- RPN485

**Our products can be modify and adaptable for a particular need**

**DO NOT HESITATE GIVE US YOUR NEEDS**

**CYBERSYS**

La maîtrise de l'électronique  
au service de l'informatique industrielle



35 chemin du Vieux Chêne – Inovalée – 38240 MEYLAN (France)  
Téléphone : (33) 4 76 62 34 96 – Télécopie : (33) 4 76 62 34 95 – Site Internet : www.cybersys.fr

SAS au capital de 275 600 € – R.C. 328 221 742 – Code NAF 322 A