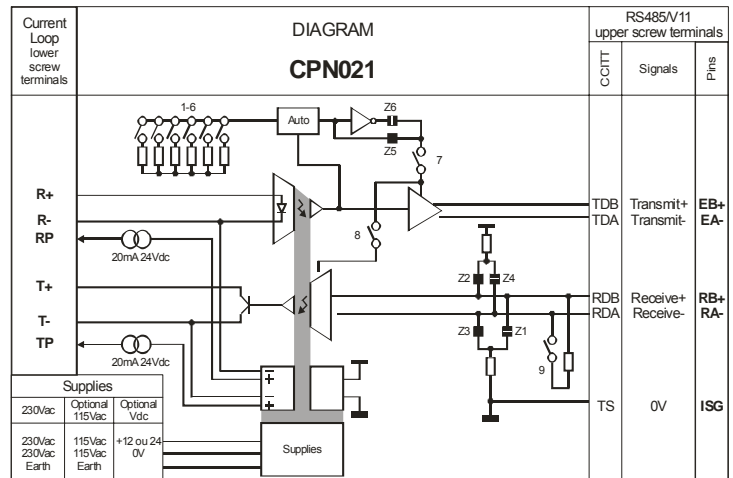


# Interface conversion and insulation

## RS485 (422) in current loop on rail DIN



### APPLICATIONS

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

### CONNECTIONS

- RS232 : screw terminals
- RS485 : screw terminals
- Power supply on removable screw terminals

### 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 5 km (3,1 miles) to 19,2 Kbauds in a light environment (attenuation max 12 dB)
  - up to 2,5 km (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 1 km (0,6 mile) at 19.2 Kbauds

### FEATURE

- Signalization : TD, RD and supply
- Insulation RS485/CL : 1500Vrms
- Insulation : 500Vdc if power 24Vdc
- Ratio of distortion < 10 % at 19,2 Kbauds
- Housing : plastic UL94V0 box for DIN rail
- Dimensions : 80 X 40 X 75 mm,
- Weight : 270g,
- Power supply : 230Vac +10, -15 %, 50/60 Hz
- Supply options : 115Vac or 24Vdc
- Power dissipation : 2VA
- Ambient temperature : -10°C to +55°C
- Temperature storage : -25°C to +70°C
- Humidity : 5 to 95 % without condensation

### CHOICE OF CONFIGURATION

- 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 38400 bauds
- Standard : 20mA in idle state
- Possibility : 0mA in idle state

### ORDERS REFERENCE

#### DIN rail case :

- CPN021 : 230Vac
- CPN021-110 : 115Vac
- CPN021-C : 24Vdc ±10%

#### OTHER REFERENCES

#### Table case :

- BC1021

#### RCI014 rack cards :

- CC1021

#### DIN rail RS485 repeater :

- RPN485

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