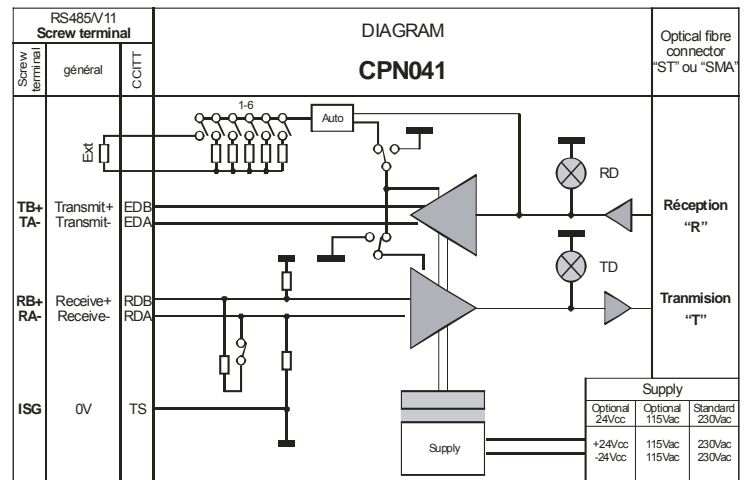


Interface conversion and insulation

RS425 or RS422 to optical fibre on DIN rail



APPLICATIONS

- Data transmissions in a noisy environment
- Remote equipment
- Interfaces insulation
- Interfaces adaptation.

CONNECTION

- RS422/RS485: connector block superior 5 pts,
- Fibre-optic : SMA (ST in option),
- Power supply : connector block 2 pts (2,5 mm², AWG 12 max, length stripping = 8 mm).

INTERFACE RS485 or RS422

- 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

INTERFACE FIBRE-OPTIC

- Used fibre : 50/125 or 62,5/125 μm
- Emitted wavelength : 820 nm
- Minimum optical power emitted to 25°C on 62,5/125 μm fibre : -17,5 dbm
- Minimum optical power guaranteeing a logical state low (enlightened fibre) : -25,4 dbm
- Minimum range :
 - 1,5km with a cable of attenuation 5 dbm/km
 - 2,6km with a cable of attenuation 3 dbm/km

FEATURE

- Visualization : TD, RD, supply
- Rate : up to 5 Mbauds,
- Housing : compact box for rail DIN
- Dimensions : H = 80, L = 40, D = 75 mm
- Weight : 250 g
- Power supply : 230Vac +10, -15 %, 50/60 Hz
- Supply options : 110Vac or 24Vdc
- Ambient temperature : -10°C to +55°C
- Storage temperature: -25°C to +70°C
- Humidity : 5 to 95 % without condensation

CHOICE OF CONFIGURATION

- By switch in front face
- RS485 transmitter validation : permanent or automatic
- On 2 wires connections type, natural local echo can be inhibited or not, by invalidation of the receiver during transmitter validation
- 120Ω impedance adaptation internal or not
- rate choice 19,2 to 256 Kbauds in automatic validation mode
- higher rates in automatic validation mode, up to 5 Mbauds by external adapted resistor

ORDER REFERENCES

DIN rail case :

- CPN041 : 230Vac, "SMA"
- CPN041-S : 230Vac, "ST"
- CPN041-C : 24Vdc ±10%, "SMA"
- CPN041-SC : 24Vdc ±10%, "ST"
- CPN041-110 : 110Vac, "SMA"
- CPN041-S110 : 110Vac, "ST"

OTHER REFERENCES

Boxe / table

- BCI041

RCI014 rack cards :

- CCI041

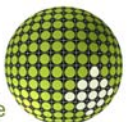
DIN rail RS485 repeater :

- RPN485

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