OPTRAL

OPTOELECTRONIC CONVERTERS / MULTIMODE FIBRE

DM5 – DATA RS232, RS422, RS485

The OPTRAL Series DM5 allows the transmission and reception of RS232, RS422 and RS485 data signals over multimode optical fibre. The basic system consists of two transceiver and two fibre optics for each communication channel with speeds up to 115 Kbs. The communication protocol: RS232, RS422, RS485-2H (2 Wires Half Duplex) and RS485 4H (4 Wires Full Duplex), can be selected by a switch.

All the models comply with the requirements according to the Electromagnetic Compatibility and Low Tension Standards (CE Marking).

FEATURES

- Multimode Optical Fibre
- Wavelength 850 nm and 1300 nm
- Modular Units, Rack Cards and DIN rail
- Configurable for short and long distances
- Optical connectors: ST (1)

(1) For other optical connectors consult us

OPERATION / TEMPERATURE / SIZE

- Temperature = 0º ÷ +50ºC
- Humidity = 10% ÷ 90%
- Power:
  - 12 Vdc / 250 mA for Rack Cards
  - 12 to 24Vdc for Modular Units and DIN
- Size
  - DIN rail = 45 x 70 x 121 mm
  - Type S = 105 x 95 x 32 mm
  - Type Rack = 1 Slot Rack

COMMUNICATION

- Data rate ≤ 115 Kbs
- Bit Error Rate ≤ 10^{-9}
- Operating mode = Asynchronous / Half - Full Duplex
- Selection of communication: *SWITCH*
- Data connector = Screw Terminal CI (7 pin)

ACCESORIES (NOT INCLUDED)

- Modular Units (Power Supplies)
  - Type S = Model PS150
  - DIN rail = Model PS150
- Rack Cards
  - Card Cage 3U (Rack 19") = PR100

POL. IND. MAS ROGER. C/ BENJAMÍN FRANKLIN, S/N. 08397 PINEDA DE MAR (BARCELONA) TEL. +34-902 40 12 13 FAX +34-937 62 58 31
http://www.optral.com E-Mail: optral@optral.com

DM5 – DATA RS232, RS422, RS485

AVAILABLE MODELS

PART NUMBER	DESCRIPTION	FORMAT	NUMBER FIBRES	MAXIMUM ATTENUATION (2)	WAVELENGTH
DM501-XD1	Transceiver RS232, RS422 and RS485	DIN rail	2	14 dB	850 nm
DM501-XB1	Transceiver RS232, RS422 and RS485	Type S			
DM501-XR1	Transceiver RS232, RS422 and RS485	Rack			
DM501-XD2	Transceiver RS232, RS422 and RS485	DIN rail			1300 nm
DM501-XB2	Transceiver RS232, RS422 and RS485	Type S			
DM501-XR2	Transceiver RS232, RS422 and RS485	Rack			

(2) Maximum attenuation at 62.5/125. For 50/125 reduce optical budget by 3dB.
DIN rail = 45 x 70 x 121 mm / Type S = 105 x 95 x 32 mm

POL. IND. MAS ROGER. C/ BENJAMÍN FRANKLIN, S/N. 08397 PINEDA DE MAR (BARCELONA) TEL. +34-902 40 12 13 FAX +34-937 62 58 31
http://www.optral.com E-Mail: optral@optral.com