



RS232/RS485/RS422 TO FIBER OPTIC CONVERTER

DDMCSF SERIES



SYNOPSIS

- DDMCSF SERIES DESIGNED FOR RELIABLE SERIAL COMMUNICATION IN HIGH EMI/RFI INDUSTRIAL ENVIRONMENTS
- EXTENDS SERIAL COMMUNICATION UP TO 2 KM OVER MULTI-MODE FIBER (MMF)
- EXTENDS SERIAL COMMUNICATION UP TO 20 KM OVER SINGLE-MODE FIBER (SMF)
- SUPPORTS RS-232, RS-422, AND RS-485 (2-WIRE AND 4-WIRE) INTERFACES
- PROVIDES DATA RATES UP TO 115.2 Kbps FOR RS-232
- PROVIDES DATA RATES UP TO 500 Kbps FOR RS-422/RS-485
- ENSURES SECURE AND INTERFERENCE-FREE DATA TRANSMISSION OVER FIBER OPTIC MEDIA
- DDMCSF VARIANT INCLUDES INTEGRATED AC INTERNAL POWER SUPPLY
- SUPPLIED WITH DIN-RAIL MOUNTING SUPPORT AS STANDARD
- DC POWER SUPPLY OPTION AVAILABLE UPON REQUEST

TECHNICAL SPECIFICATIONS

Model Type	Fiber Cable	Wavelength (nm)	Distance
Multimode	50 / 125, 62.5 / 125, or 100 / 140µm	1310	2 Km
Single mode	8.3 / 125, 8.7 / 125, 9 / 125 or 10 / 125µm	1310 (default), 1550	20Km. Min 1 Km. Max 100Km as Options

PARAMETER	
RS232 Signals	Rx, Tx, Gnd
RS485/422 Signals	D+, D-, Tx+, Tx-, Rx+, Rx-
Data Rate	Up to 460kbps for RS485/RS422 & 115kbps for RS232
Connector details	Multimode: SC/ST Single mode: SC/ST 9 Pin Industrial Screw type for Serial Port
Connection Modes	Peer to Peer and Supports Multidrop
LED Indications	FAULT, PWR, RXD, TXD
Transmit Power	-5.5 dBm
Receive Sensitivity	-18 dBm

POWER

Power Input	230V AC. Range 90V AC to 264V AC. 50 to 60Hz
Connector	3 Pin Screw type terminal
Protection	4KV EFT Protection, 4KV Surge Protection
ESD Protection	15KV
Surge Protection	600W

PHYSICAL CHARACTERISTICS

Dimensions	150mm (H) * 100mm (D) * 30mm (W)
Installation	DIN rail
Ingress Protection	IP30

ENVIRONMENTAL

Operating Temperature	-10 to +75°C
Operating Humidity	5% to 90% RH Non coagulation

ORDERING CODE

DDMCSF M/S020 SC/ST 230 S

DDMCSF	Databridge Dynamic Serial to Fiber Converter
M/S020	M: Multimode S020: Single Mode 20Km. S040: Single Mode 40Km S060: Single Mode 60Km
SC/ST	SC: SC Connector ST: ST Connector
230	230V AC. Range 90V AC to 264V AC
S	Fixed