



OZD 485 G12-1300 PRO

Industrial Networking:FiberINTERFACES:Field Bus:RS 485 Repeaters

Product description

Description	interface converter electrical/optical for RS 485 field bus networks; repeater function;for quartz glass FO; electrical full duplex or semi-duplex mode; long-haul version
Port type and quantity	2 x optical: BFOC 2.5 (STR) socket 1 x electrical: 6-pin terminal block
Type	OZD 485 G12-1300 PRO
Order No.	943 895-321

Electrical interface

Signal type	RS 485
Input resistance	10 kOhm
Input voltage range	-7 V ... +12 V
Jitter	typ. 10 nspp
Distortion of bit duration	typ. 1 nspp
Bit rate	0 to 1.5 Mbit/s NRZ

Optical interface

Wavelength	1310 nm
Optical input power	-31 dBm

More Interfaces

Power supply	7-pin terminal block
Signaling contact	7-pin terminal block
Voltage output	3-pin terminal block

Network size - length of cable

Single mode fiber (SM)9/125 µm	22000 m 13 dB link budget at 1310 nm; A = 0.5 dB/km, 2 dB reserve
Multimode fiber (MM) 50/125 µm	16000 m 18 dB link budget at 1310 nm; A = 1.0 dB/km, 2 dB reserve
Multimode fiber (MM) 62.5/125 µm	16000 m 18 dB link budget at 1310 nm; A = 1.0 dB/km, 2 dB reserve
System delay time	<1.56 us

Power requirements

Operating voltage	18 ... 32 VDC (typ. 24 VDC)
Current consumption	140 mA at 24 VDC, 65 mA at 32 VDC
Power consumption	<3.5 W

Redundancy

Redundancy functions	redundant ring, redundant power supply
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Ambient conditions

Operating temperature	-25 °C to +70 °C
Storage/transport temperature	-25 °C to +80 °C
Relative humidity	<95% (non-condensing)

Mechanical construction

Dimensions (W x H x D)	35 x 163 x 119
Mounting	DIN rail
Weight	215 g
Protection class	IP 20
Housing material	plastics

Approvals

Issued or requested approvals cUL508, cUL1604 Class1, Div. 2, Groups A,B,C and D; according to directive 94/9/EG (ATEX 95): Ex II 3 G (Zone 2); C-Tick

Scope of delivery and accessories

Scope of delivery device, start-up instructions
Accessories to order separately manual, order no. 039 516-001