



OZD 485 G12

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
Port type and quantity	2 x optical: BFOC 2.5 (STR) socket 1 x electrical: 12-pin terminal block
Type	OZD 485 G12
Order No.	943 776-321

Electrical interface

Signal type	RS 485 (Modbus, ...)
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	860 nm
Optical input power	-30 dBm

More Interfaces

Power supply	5-pin terminal block
Signaling contact	5-pin terminal block
Voltage output	3-pin terminal output

Network size - length of cable

Multimode fiber (MM) 50/125 µm	2300 m 10 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve
Multimode fiber (MM) 62.5/125 µm	3100 m 14 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve
System delay time	<1,33 us

Power requirements

Operating voltage	18 ... 32 VDC (typ. 24 VDC)
Current consumption	190 mA at 18 VDC, 110 mA at 32 VDC
Power consumption	3.4 W at 18 VDC, 3.5 W at 32 VDC

Redundancy

Redundancy functions	redundant ring, redundant power supply
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Ambient conditions

Operating temperature	-25 °C to +60 °C
Storage/transport temperature	-25 °C to +70 °C
Relative humidity	<95% (non-condensing)

Mechanical construction

Dimensions (W x H x D)	40 x 140 x 90 mm
Mounting	DIN rail or mounting plate
Weight	650 g
Protection class	IP 30
Housing material	die-cast zink

Scope of delivery and accessories

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