



OZD 485 G12 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
Port type and quantity	2 x optical: BFOC 2.5 (STR) socket 1 x electrical: 12-pin terminal block
Type	OZD 485 G12 PRO
Order No.	943 894-321
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	860 nm
Optical input power	-30 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	-
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 = 3.5 dB/km, 3 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
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 156 x 119
Mounting	DIN rail
Weight	195 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