




Product information OZD Genius G12-1300

Fiber Interfaces:Fieldbus Repeater:Geniusbus LWL-Repeater:OZD Genius G12-1300

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Name	OZD Genius G12-1300
	
	New generation: interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass FO
Delivery informations	
Availability	available
Product description	
Description	New generation: interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass FO
Port type and quantity	2 x optical: 4 sockets BFOC 2.5 (STR); 1 x electrical: 4-pin connector, screw mounting
Type	OZD Genius G12-1300
Order No.	942 148-013
Electrical interface	
Signal type	Geniusbus
Bit rate	38.4; 76.8; 153.6 kbit/s
Signal delay time (optional input/output)	800 ns
Input/output signal	Geniusbus
Genius cable	length: <250 m attenuation at 1 MHz: <8 dB for 150 Ohm cable <5 dB for 100 Ohm cable
Connection capability	max. 32 terminal devices
Terminator	external
Galvanic isolation	shielding in/shielding out: yes; data lines/housing: yes
Optical interface	
Wavelength	1310 nm
Cascadability	not limited
More Interfaces	
Power supply	8-pin terminal block, screw mounting
Signaling contact	8-pin terminal block, screw mounting
Network size - length of cable	
Single mode fiber (SM) 9/125 µm	10000 m 8 dB link budget at 1310 nm; A = 0.5 dB/km, 2 dB reserve
Multimode fiber (MM) 50/125 µm	7000 m 10 dB link budget at 1310 nm; A = 1 dB/km, 3 dB reserve
Multimode fiber (MM) 62.5/125 µm	7000 m 10 dB link budget at 1310 nm; A = 1 dB/km, 3 dB reserve
Multimode fiber HCS (MM) 200/230 µm	-
Power requirements	
Operating voltage	24 VDC (18 ... 32 VDC), reverse polarity protected, safety extra-low voltage
Current consumption	160 mA
Power consumption	3.9 W
Redundancy	
Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
Ambient conditions	
Operating temperature	0 °C to +55 °C
Storage/transport temperature	-40 °C to +80 °C
Relative humidity	<95% (non-condensing)

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Mechanical construction

Dimensions (W x H x D)	40 x 111 x 73.5 mm
Mounting	DIN rail or mounting plate
Weight	500 g
Protection class	IP 40
Housing material	die-cast zinc

Approvals

Basis Standard	EC, FCC
Safety of industrial control equipment	cUL61010-2-201
Hazardous locations	ISA 12.12.01 Class 1 Div. 2; ATEX Zone 2

Scope of delivery and accessories

Scope of delivery	device, start-up instructions
Accessories to order separately	manual

For more information please contact:

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