




**Product information**  
**OZD Genius G12-1300**  
**934 233-021**

Name		OZD Genius G12-1300
		
		interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass FO; approval for Ex-zone 2 (Class 1, Div. 2); long-haul version
Delivery informations		
Availability		available
Product description		
Description		interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass FO; approval for Ex-zone 2 (Class 1, Div. 2); long-haul version
Port type and quantity		2 x optical: 4 sockets BFOC 2.5 (STR); 1 x electrical: 4-pin connector with self-locking mechanism
Type		OZD Genius G12-1300
Order No.		934 233-021
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		5-pin terminal block, screw mounting
Signaling contact		5-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 (19 ... 35 VDC), non-interchangeable, safety extra-low voltage
Current consumption		130 mA
Power consumption		3.1 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

The information published has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price related/commercial respect.



Relative humidity	<95% (non-condensing)
<b>Mechanical construction</b>	
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
<b>Approvals</b>	
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)
<b>Scope of delivery and accessories</b>	
Scope of delivery	device, start-up instructions
Accessories to order separately	manual, order no. 933 989-901