



## Product information OZD Genius G12-1300

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

<http://www.e-catalog.beldensolutions.com/link/57078-57141-57128-57131-38169/en/conf/uisstate>

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
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
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
<b>Electrical interface</b>	
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
<b>Optical interface</b>	
Wavelength	1310 nm
Cascadability	not limited
<b>More interfaces</b>	
Power supply	5-pin terminal block, screw mounting
Signaling contact	5-pin terminal block, screw mounting
<b>Network size - length of cable</b>	
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	-
<b>Power requirements</b>	
Operating voltage	24 VDC (19 ... 35 VDC), non-interchangeable, safety extra-low voltage
Current consumption	130 mA
Power consumption	3.1 W
<b>Redundancy</b>	
Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
<b>Ambient conditions</b>	
Operating temperature	0 °C to +55 °C
Storage/transport temperature	-40 °C to +80 °C



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

<http://www.e-catalog.beldensolutions.com/link/57078-57141-57128-57131-38169/en/conf/ui/state>

<b>Relative humidity</b>	<95% (non-condensing)
<b>Mechanical construction</b>	
<b>Dimensions (W x H x D)</b>	40 x 111 x 73.5 mm
<b>Mounting</b>	DIN rail or mounting plate
<b>Weight</b>	500 g
<b>Protection class</b>	IP 40
<b>Housing material</b>	die-cast zinc
<b>Approvals</b>	
<b>Issued or requested approvals</b>	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>	
<b>Scope of delivery</b>	device, start-up instructions
<b>Accessories to order separately</b>	manual, order no. 933 989-901

For more information please contact:

**Hirschmann Automation and Control GmbH**

Stuttgarter Strasse 45-51

72654 Neckartenzlingen

Germany

Phone: +49 7127/14-1809

E-Mail: [inet-sales@belden.com](mailto:inet-sales@belden.com)

The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect. The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.