




Product information OZD Genius G12

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

<http://e-catalog.hirschmann.com/link/57078-57141-57128-57131-38168/en/conf/uisstate>

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| Name | OZD Genius G12 |
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| | interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass und PCF (HCS) F0; approval for Ex-zone 2 (Class 1, Div. 2) |
| Delivery informations | |
| Availability | available |
| Product description | |
| Description | interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass und PCF (HCS) F0; approval for Ex-zone 2 (Class 1, Div. 2) |
| Port type and quantity | 2 x optical: 4 sockets BF0C 2.5 (STR); 1 x electrical: 4-pin connector with self-locking mechanism |
| Type | OZD Genius G12 |
| Order No. | 933 989-021 |
| 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 | 860 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 | - |
| Multimode fiber (MM) 50/125 µm | 2700 m 11 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve |
| Multimode fiber (MM) 62.5/125 µm | 2600 m 12 dB link budget at 860 nm; A = 3.5 dB/km, 3 dB reserve |
| Multimode fiber HCS (MM) 200/230 µm | 1500 m 16 dB link budget at 860 nm; A = 8 dB/km, 3 dB reserve |
| 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 |
| 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

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|-------------------------------|--|
| Issued or requested approvals | cUL508, cUL1604 Class1, Div. 2, Groups A,B,C and D |
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Scope of delivery and accessories

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

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