



Product information
OZD Genius G12-1300
934 233-021

Name		OZD Genius G12-1300
		
Delivery informations		interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass F0; approval for Ex-zone 2 (Class 1, Div. 2); long-haul version
Availability	available	
Product description		
Description	interface converter electrical/optical for Genius field bus networks; repeater function; for quartz glass F0; 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	
Signalling 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)
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	
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)
Scope of delivery and accessories	
Scope of delivery	device, start-up instructions
Accessories to order separately	manual, order no. 933 989-901

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