



## Product information OZD Profi 12M G12-1300 EEC

Fiber Interfaces:Fieldbus Repeater:Profibus LWL-Repeater:OZD Profi 12M G12-1300 EEC

<https://www.e-catalog.beldensolutions.com:443/link/57078-57141-57128-57129-500573/en/conf/uisstate>

Name	OZD Profi 12M G12-1300 EEC
	
	New generation: interface converter electrical/optical for PROFIBUS-field bus networks; repeater function; for quartz glass FO; long-haul version; approval for Ex-zone 2 (Class 1, Div. 2); extended temperature and humidity range
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
Description	New generation: interface converter electrical/optical for PROFIBUS-field bus networks; repeater function; for quartz glass FO; long-haul version; approval for Ex-zone 2 (Class 1, Div. 2); extended temperature and humidity range
Port type and quantity	2 x optical: 4 sockets BFOC 2.5 (STR); 1 x electrical: Sub-D 9-pin, female, pin assignment according to EN 50170 part 1
Type	OZD Profi 12M G12-1300 EEC
Order No.	942 148-105
<b>Electrical interface</b>	
Signal type	PROFIBUS (DP-V0, DP-V1, DP-V2 und FMS)
Bit rate	9.6; 19.2; 45.45; 93.75; 187.5; 500 kbit/s; 1.5; 3; 6; 12 Mbit/s (automatic setting)
Signal delay time (optional input/output)	<= 6.5 bit times
Input/output signal	RS 485 level
Input voltage range	-7 V ... +12 V
Galvanic isolation	yes
<b>Optical interface</b>	
Wavelength	1310 nm
Cascadability	not limited
<b>More interfaces</b>	
Power supply	8-pin terminal block, screw mounting
Signaling contact	8-pin terminal block, screw mounting
Measuring outputs "Optical input power"	8-pin terminal block, screw mounting
<b>Network size - length of cable</b>	
Single mode fiber (SM) 9/125 µm	15000 m 10 dB link budget at 1310 nm; A = 0.5 dB/km, 2 dB reserve
Multimode fiber (MM) 50/125 µm	10000 m 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve
Multimode fiber (MM) 62.5/125 µm	10000 m 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve
Multimode fiber HCS (MM) 200/230 µm	-
Multimode fiber POF (MM) 980/1000 µm	-
<b>Power requirements</b>	
Operating voltage	18 ... 32 VDC, typ. 24 VDC
Galvanic isolation	yes
Current consumption	max. 190 mA
Power consumption	4.5 W
Output voltage/output current (pin6)	5 VDC +5%, -10%, short circuit-proof/10 mA
<b>Redundancy</b>	
Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
<b>Ambient conditions</b>	
Operating temperature	-20 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C



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<b>Relative humidity</b>	100% (condensing)
<b>Mechanical construction</b>	
<b>Dimensions (W x H x D)</b>	40 x 140 x 77.5 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>Basis Standard</b>	CE, FCC
<b>Safety of industrial control equipment</b>	cUL61010
<b>Scope of delivery and accessories</b>	
<b>Scope of delivery</b>	device, start-up instructions

For more information please contact:

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