



## OZD Profi 12M G12

Industrial Networking:FiberINTERFACES:Field Bus:Profibus Rail Repeaters

<b>Product description</b>	
Description	interface converter electrical/optical for PROFIBUS-field bus networks; repeater function; for quartz glass FO; approval for Ex-zone 2 (Class 1, Div. 2)
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
Order No.	943 727-321
<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	no
<b>Optical interface</b>	
Wavelength	860 nm
Cascadability	not limited
<b>More Interfaces</b>	
Power supply	5-pin terminal block, screw mounting
Signaling contact	5-pin terminal block, screw mounting
Measuring outputs "Optical input power"	2 mm sockets
<b>Network size - length of cable</b>	
Single mode fiber (SM) 9/125 µm	-
Multimode fiber (MM) 50/125 µm	3000 m 13 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve
Multimode fiber (MM) 62.5/125 µm	3000 m 15 dB link budget at 860 nm; A = 3.5 dB/km, 3 dB reserve
Multimode fiber HCS (MM) 200/230 µm	1000 m 18 dB link budget at 860 nm; A = 8 dB/km, 3 dB reserve
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. 200 mA
Power consumption	4.8 W
Output voltage/output current (pin6)	5 VDC +5%, -10%, short circuit-proof/90 mA
<b>Redundancy</b>	
Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
<b>Ambient conditions</b>	
Operating temperature	0 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity	<95% (non-condensing)
<b>Mechanical construction</b>	
Dimensions (W x H x D)	40 x 140 x 77.5 mm
Mounting	DIN rail or mounting plate
Weight	500 g
Protection class	IP 40

Housing material die-cast zink

**Approvals**

Issued or requested approvals FM Class 1, Div. 2; C-Tick; 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. 039 629-001