



OZD Profi 12M G12-1300

Industrial Networking:FiberINTERFACES:Field Bus:Profibus Rail Repeaters

Product description

Description	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)
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
Order No.	943 729-321

Electrical interface

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

Optical interface

Wavelength	1310 nm
Cascadability	not limited

More Interfaces

Power supply	5-pin terminal block, screw mounting
Signaling contact	5-pin terminal block, screw mounting
Measuring outputs "Optical input power"	2 mm sockets

Network size - length of cable

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	-

Power requirements

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

Redundancy

Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
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Ambient conditions

Operating temperature	0 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity	<95% (non-condensing)

Mechanical construction

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 zinc
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