



Product: [OZD Profi 12M G12](#)

New generation: interface converter electrical/optical for PROFIBUS-field bus networks; repeater function; for quartz glass FO; approval for Ex-zone 2 (Class 1, Div. 2)

Product Description

New generation: interface converter electrical/optical for PROFIBUS-field bus networks; repeater function; for quartz glass FO; approval for Ex-zone 2 (Class 1, Div. 2)

Technical Specifications

Product description

Type:	OZD Profi 12M G12
Name:	OZD Profi 12M G12
Part Number:	942148002
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
Signal Type:	PROFIBUS (DP-V0, DP-V1, DP-V2 und FMS)

More Interfaces

Power Supply:	8-pin terminal block, screw mounting
Signaling contact:	8-pin terminal block, screw mounting

Network size - length of cable

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:	-

Power requirements

Current consumption:	max. 190 mA
Input voltage range:	-7 V ... +12 V
Operating Voltage:	18 ... 32 VDC, typ. 24 VDC
Power consumption:	4.5 W
Redundancy functions:	HIPER-Ring (ring structure), redundant 24 V infeed

Power Output

Output voltage/output current (pin6):	5 VDC +5%, -10%, short circuit-proof/10 mA
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Ambient conditions

Operating temperature:	0+60 °C
Minimum Storage Temperature:	-40+70 °C
Relative humidity (non-condensing):	10-95 %

Mechanical construction

Dimensions (WxHxD):	39.5 x 137.5 x 84 mm
Weight:	560 g
Housing Material:	die-cast zinc
Mount Type:	DIN rail or mounting plate
Protection class:	IP40

Approvals

Basis Standard:	EU Conformity, FCC Conformity, AUS Conformity Australia
Safety of industrial control equipment:	cUL61010-2-201
Hazardous locations:	ISA 12.12.01 Class 1 Div. 2, ATEX Zone 2

Reliability

Guarantee:	60 months (please refer to the <a href="https://assets.belden.com/m/1424ddb7a3280e7a/original/Hirschmann-Automation-and-Control-GmbH-Terms-of-Guarantee.pdf" terms of guarantee </a for detailed information)
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Scope of delivery and accessories

Scope of delivery:	device, start-up instructions
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