



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

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); conformal coating, extended temperature and humidity range

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); conformal coating, extended temperature and humidity range

Technical Specifications

Product description

| | |
|-------------------------|---|
| Type: | OZD Profi 12M G12 EEC |
| Name: | OZD Profi 12M G12 EEC |
| Part Number: | 942148102 |
| 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

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|---|--|
| 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

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|-----------------------|--|
| 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

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

Ambient conditions

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|---|-------------|
| MTBF (Telcordia SR-332 Issue 3) @ 25°C: | 2 591 674 h |
| Operating temperature: | -25+60 °C |
| Minimum Storage Temperature: | -40+70 °C |

| | |
|-------------------------------------|---------|
| Relative humidity (non-condensing): | 10-95 % |
|-------------------------------------|---------|

Mechanical construction

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|---------------------|----------------------------|
| 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) |
|------------|---|

Scope of delivery and accessories

| | |
|--------------------|-------------------------------|
| Scope of delivery: | device, start-up instructions |
|--------------------|-------------------------------|

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