



## Product: [OZD Profi 12M G11-1300](#)

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)

### Product 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)

### Technical Specifications

#### Product description

Type:	OZD Profi 12M G11-1300
Name:	OZD Profi 12M G11-1300
Part Number:	942148004
Port type and quantity:	1 x optical: 2 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:	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

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:	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

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	2 978 997 h
Operating temperature:	0-+60 °C
Storage/transport 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 zink
Mounting:	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="#">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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## Product: [OZD Profi 12M G22 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 G22 EEC
Name:	OZD Profi 12M G22 EEC
Part Number:	942148103
Port type and quantity:	2 x optical: 4 sockets BFOC 2.5 (STR) 2 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

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	2 502 670 h
Operating temperature:	-25-+60 °C
Storage/transport 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 zink
Mounting:	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="#">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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## Product: [OZD Profi 12M P12](#)

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

### Technical Specifications

#### Product description

Type:	OZD Profi 12M P12
Name:	OZD Profi 12M P12
Part Number:	942148008
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 and 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:	-
Multimode fiber (MM) 62.5/125 µm:	-
Multimode fiber HCS (MM) 200/230 µm:	400 m; 8 dB link budget at 660 nm and transmitting power default; A = 8 dB/km, 2 dB reserve
Multimode fiber POF (MM) 980/1000 µm:	50 m; 15 dB link budget at 660 nm and transmitting power reduced; 80 m; 20 dB link budget at 660 nm and transmitting power default; A = 0.2 dB/m, 2 dB reserve

#### 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

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	2 591 674 h
Operating temperature:	0-+60 °C
Storage/transport 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 zink
Mounting:	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="#">terms of guarantee</a> for detailed information)
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Scope of delivery and accessories

Scope of delivery:	device, 4 optical BFOC ST plugs, start-up instructions
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**Product:** [OZD Profi 12M P22](#)

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

**Technical Specifications**

**Product description**

Type:	OZD Profi 12M P22
Name:	OZD Profi 12M P22
Part Number:	942148009
Port type and quantity:	2 x optical: 4 sockets BFOC 2.5 (STR) 2 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:	-
Multimode fiber (MM) 62.5/125 µm:	-
Multimode fiber HCS (MM) 200/230 µm:	400 m; 8 dB link budget at 660 nm and transmitting power default; A = 8 dB/km, 2 dB reserve
Multimode fiber POF (MM) 980/1000 µm:	50 m; 15 dB link budget at 660 nm and transmitting power reduced; 80 m; 20 dB link budget at 660 nm and transmitting power default; A = 0.2 dB/m, 2 dB reserve

**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**

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	2 502 670 h
Operating temperature:	0-+60 °C
Storage/transport 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 zink
Mounting:	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="#">terms of guarantee</a> for detailed information)
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Scope of delivery and accessories

Scope of delivery:	device, 4 optical BFOC ST plugs, start-up instructions
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