



## Part Number: 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:	942 148-008
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

#### 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 $\mu\text{m}$ :	-
Multimode fiber (MM) 50/125 $\mu\text{m}$ :	-
Multimode fiber (MM) 62.5/125 $\mu\text{m}$ :	-
Multimode fiber HCS (MM) 200/230 $\mu\text{m}$ :	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 $\mu\text{m}$ :	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
---------------------------------------	--

#### Ambient conditions

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

#### Mechanical construction

Dimensions (WxHxD):	40 x 140 x 77.5 mm
Weight:	500 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
Hazardous locations:	ATEX Zone 2

## Scope of delivery and accessories

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

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.