HIRSCHMANN
A BELDEN BRAND



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

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

Ambient conditions

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

Dimensions (WxHxD):	39.5 x 137.5 x 84 mm
Weight:	560 g

Housing Material:	die-cast zink
Mount Type:	DIN rail or mounting plate
IP Protection Rating:	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 ""terms of guarantee or detailed information)

Scope of delivery and accessories

Scope of delivery:	device, start-up instructions

© 2026 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.