



Always keep an eye on your reserves:

The new OZD Profi with predictive maintenance.

- Innovative OZD Profi generation
- Now with predictive maintenance function
- Ongoing monitoring of fiber transmission quality
- Remote maintenance via process control system

**HIRSCHMANN**

We know how to combat wear and tear.

Sooner or later, fiber optic networks begin to show signs of aging or unpredictable operating disturbances. Being able to anticipate these problems and act accordingly is a major advantage. The new fieldbus repeaters from the OZD Profi generation by Hirschmann enable you to do just that. These devices warn you before malfunctions occur in your fiber optic network: They constantly monitor the status of the network,

the data exchange with the remote station, and the devices themselves. This way, you always keep an eye on the status of your fiber optic network, while improving your operating reliability and reducing your operating expenses. And it all comes with a high fiber optic transmission capacity and remote maintenance function, packaged in a new, compact housing, and soon with approvals for hazardous locations.

OZD Profi Basic data

Product name	OZD Profi 12 M xx PRO
Product description	
Description	interface converter electrical/optical for PROFIBUS-field bus networks; repeater function
Electrical interface	
Signal type	PROFIBUS (DP-V0, DP-V1, DP-V2 and FMS)
Bit rate	9.6; 19.2; 45.45; 93.75; 187.5; 500 kbit/s; 1.5; 3; 6; 12 Mbit/s (automatic setting)
Optical interface	
Cascadability	not limited
More Interfaces	
Signaling contact	5-pin terminal block, screw mounting
Measuring outputs "Optical input power"	3-pin terminal block, screw mounting
Power requirements	
Operating voltage	18...32 VDC, typ. 24 VDC
Galvanic isolation	yes
Power consumption	4.8 W
Redundancy	
Redundancy functions	redundant 24 V infeed
Approvals	
Issued approvals	C-Tick
Requested approvals	cUL Class 1, Div. 2; ATEX Zone 2

High-performance

- Field bus repeater with high fiber transmission capacity

Innovative

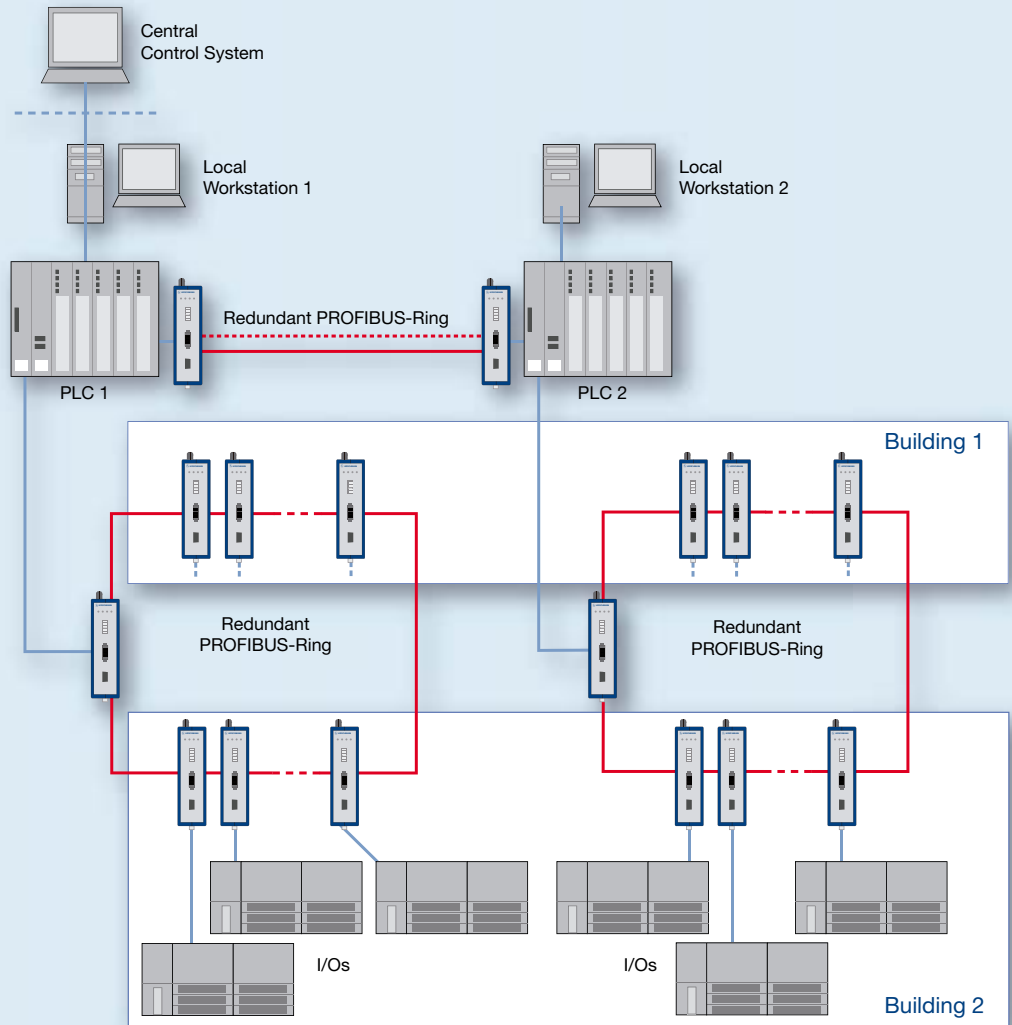
- Now with predictive maintenance function

New product variety

- Eight different device models with various properties

OZD Profi Product models

Product name	OZD Profi 12 M G11 PRO	OZD Profi 12 M G11-1300 PRO	OZD Profi 12 M G12 PRO	OZD Profi 12 M G13 PRO
Product description				
Port type and quantity	1x optical; 2 sockets BFOC 2.5 (STR)	1x optical; 2 sockets BFOC 2.5 (STR)	2 x optical; 4 sockets BFOC 2.5 (STR)	2 x optical; 4 sockets BFOC 2.5 (STR)
Order No.	943 905-221	943 906-221	943 905-321	943 907-321
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	3000 m; 13 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve	10000 m; 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve	3000 m; 13 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve	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	10000 m; 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve	3000 m; 15 dB link budget at 860 nm; A = 3.5 dB/km, 3 dB reserve	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		1000 m; 18 dB link budget at 860 nm; A = 8 dB/km, 3 dB reserve	1000 m; 18 dB link budget at 860 nm; A = 8 dB/km, 3 dB reserve
Multimode fiber POF (MM) 980/1000 µm				
Redundancy				
Redundancy functions			HIPER-Ring (ring structur)	HIPER-Ring (ring structur)
Ambient conditions				
Operating temperature	0° C up to +60° C	0° C up to +60° C	0° C up to +60° C	-20° C up to +60° C
Relative humidity	< 95 % (non-condensing)	< 95 % (non-condensing)	< 95 % (non-condensing)	100 % (condensing)



More reliability

- Remote maintenance via process control system

Applications

- traffic and building automation, petrochemistry and engineering

12 EEC PRO	OZD Profi 12 M G12-1300 PRO	OZD Profi 12 M G12-1300 EEC PRO	OZD Profi 12 M P11 PRO	OZD Profi 12 M P12 PRO
Ports BFOC 2.5 (STR)	2 x optical: 4 sockets BFOC 2.5 (STR) 943 906-321	2 x optical: 4 sockets BFOC 2.5 (STR) 943 908-321	1 x optical: 2 sockets BFOC 2.5 (STR) 943 904-221	2 x optical: 4 sockets BFOC 2.5 (STR) 943 904-321
Link budget at 860 nm; reserve	15000 m; 10 dB link budget at 1310 nm; A = 0.5 dB/km, 2 dB reserve	15000 m; 10 dB link budget at 1310 nm; A = 0.5 dB/km, 2 dB reserve		
Link budget at 860 nm; B reserve	10000 m; 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve	10000 m; 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve		
Link budget at 660 nm, 3 dB reserve	10000 m; 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve	10000 m; 12 dB link budget at 1310 nm; A = 1 dB/km, 2 dB reserve	400 m; 8 dB link budget at 660 nm and transmitting power default A = 8 dB/km, 2 dB reserve	400 m; 8 dB link budget at 660 nm and transmitting power default A = 8 dB/km, 2 dB reserve
			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	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
Structure	HIPER-Ring (ring structure)	HIPER-Ring (ring structure)		HIPER-Ring (ring structure)
Temperature	0° C up to +60° C	-20° C up to +60° C	0° C up to +60° C	0° C up to +60° C
Humidity	<95 % (non-condensing)	100 % (condensing)	<95 % (non-condensing)	<95 % (non-condensing)



HIRSCHMANN

Hirschmann. Simply a good Connection.



- Production bases
- Sales subsidiaries
- Selected distribution partners

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