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Hirschmann Automation and Control GmbH
Industrial ETHERNET
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Industrial Connectors
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DS 280 720-052 · Edition 1 · 1106

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 aprovals for hazardous locations.

High-performance

- Field bus repeater with high fiber transmission capacity

Innovative

- Now with predictive maintenance function

New product variety

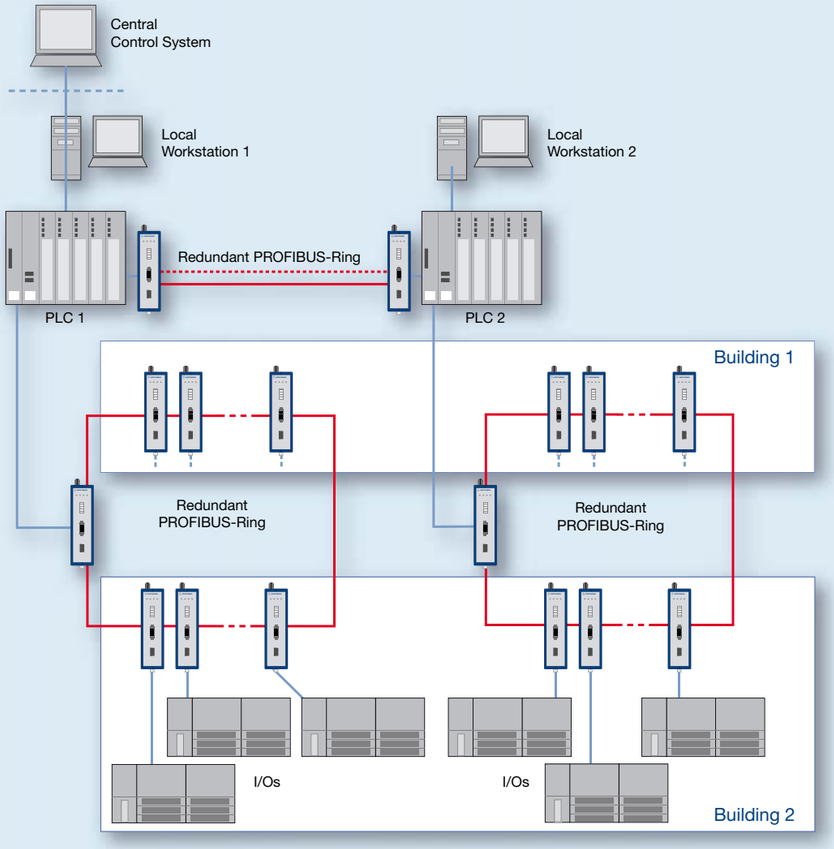
- Eight different device models with various properties

More reliability

- Remote maintenance via process control system

Applications

- traffic and building automation, petrochemistry and engineering



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	
Cascadibility	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 V DC, typ. 24 V DC
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

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 G12 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
Product description								
Port type and quantity	1 x optical: 2 sockets BFOC 2.5 (STR)	1 x 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)	2 x optical: 4 sockets BFOC 2.5 (STR)	2 x optical: 4 sockets BFOC 2.5 (STR)	1 x optical: 2 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	943 906-321	943 908-321	943 904-221	943 904-321
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			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		
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	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		
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	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		
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			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
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	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
Redundancy								
Redundancy functions			HIPER-Ring (ring structur)	HIPER-Ring (ring structur)	HIPER-Ring (ring structur)	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	0° C up to + 60° C	– 20° C up to + 60° C	0° C up to + 60° C	0° C up to + 60° C
Relative humidity	< 95 % (non-condensing)	< 95 % (non-condensing)	< 95 % (non-condensing)	100 % (condensing)	< 95 % (non-condensing)	100 % (condensing)	< 95 % (non-condensing)	< 95 % (non-condensing)