



Hardened Transceivers and Fiber Modems/Repeaters

Rail Transceivers and Hubs

Hirschmann's Rail Transceivers provide RJ45 and fiber media conversion. For applications that require additional RJ45 ports, we recommend using a switch with one fiber and multiple RJ45 ports.



SPIDER Ethernet Transceiver

Part No.	Order No.
SPIDER 1TX/1FX MM	943 890-001
SPIDER 1TX/1FX SM	943 891-001

- 1 x 10/100Base-TX, RJ45
- 1 x 100Base-FX, MM or SM, SC sockets
- 1 pluggable terminal block, 24 VDC



RT2 Ethernet Transceiver

Part No.	Order No.
RT2-TX/FX	943 658-002
RT2-TX/FX-SM	943 658-032

- 1 x 10/100Base-TX, RJ45
- 1 x 100Base-FX, MM or SM, SC sockets
- 1 pluggable terminal block, redundant 24 VDC inputs, link loss alarm, power loss alarm, fault relay output

Fieldbus Transceivers/Fiber Modems

For the most commonly used fieldbus protocols, Hirschmann has developed a series of copper-fiber converters (also often referred to as fiber repeaters), permitting users to extend the range of their fieldbus signals beyond the limitations of copper. The fiber optic repeaters are used in mission-critical applications where electromagnetic influences may be present. Because of fiber's properties, RFI/EMI has no influence on the reliability of the fiber optic links.

RS232 Media Converters		
Part No.	Order No.	Description
OZDV 2451P	943 316-021	1 electrical and 1 optical port, bus-powered, POF 0-60 m
OZDV 2451G	943 299-021	1 electrical and 1 optical port, bus-powered, Multimode 0-2000 m
OZDV 2471P	943 340-021	1 electrical and 1 optical port, POF 0-100M, HCS 0-2100 m
OZDV 2471G	943 341-021	1 electrical and 1 optical port, Multimode 0-6700 m
OZDV 2471G-1300	933 990-021	1 electrical and 1 optical port, Singlemode 0-32 km



RS485 Repeaters		
Part No.	Order No.	Description
OZD 485 G12 BASIC	943 893-321	1 electrical and 2 optical ports, Multimode-line capable
OZD 485 G12 PRO	943 894-321	1 electrical and 2 optical ports, predictive maintenance, Multimode – redundant ring capable
OZD 485 G12-1300 PRO	943 895-321	1 electrical and 2 optical ports, predictive maintenance, Singlemode – redundant ring capable



PROFIBUS Repeaters		
Part No.	Order No.	Description
OZD PROFI 12M P11	943 728-221	for plastic fiber, 1 electrical, 1 optical port
OZD PROFI 12M P12	943 728-321	for plastic fiber, 1 electrical, 2 optical ports redundant ring capable
OZD PROFI 12M G11	943 727-221	1 electrical, 1 optical port, multimode
OZD PROFI 12M G12	943 727-321	1 electrical, 2 optical ports, multimode – redundant ring capable
OZD PROFI 12M G12 EEC	943 730-321	1 electrical, 2 optical ports, multimode – redundant ring capable, EEC*
OZD PROFI 12M G11 1300	943 729-221	1 electrical, 1 optical port, singlemode
OZD PROFI 12M G12 1300	943 729-321	1 electrical, 2 optical ports, singlemode – redundant ring capable
OZD PROFI 12M G12 1300 EEC	943 256-321	1 electrical, 2 optical ports, singlemode – redundant ring capable, EEC*
OZD PROFI 12M P11 PRO	943 904-221	1 electrical, 1 optical port, predictive maintenance, POF
OZD PROFI 12M P12 PRO	943 904-321	1 electrical, 2 optical ports, predictive maintenance, POF, redundant ring capable
OZD PROFI 12M G11 PRO	943 905-221	1 electrical, 1 optical port, predictive maintenance, multimode





Hardened Fiber Modems/Repeaters (Continued)

PROFIBUS Repeaters (Continued)

Part No.	Order No.	Description
OZD PROFIBUS 12M G12 PRO	943 905-321	1 electrical, 2 optical ports, predictive maintenance, multimode, redundant ring capable
OZD PROFIBUS 12M G12 EEC PRO	943 907-321	1 electrical, 2 optical ports, predictive maintenance, multimode, redundant ring capable, EEC*
OZD PROFIBUS 12M G11-1300 PRO	943 906-221	1 electrical, 1 optical port, predictive maintenance, singlemode
OZD PROFIBUS 12M G12-1300 PRO	943 906-321	1 electrical, 2 optical ports, predictive maintenance, singlemode, redundant ring capable
OZD PROFIBUS 12M G12-1300 PRO	943 908-321	1 electrical, 2 optical ports, predictive maintenance, singlemode, redundant ring capable, EEC*

NOTE: *Devices showing EEC above can operate in extended environmental conditions: - 20° C to + 60° C, 100 % humidity

Profibus ATEX Zone 1 Repeaters

Part No.	Order No.	Description
OZD PROFIBUS G12DU ATEX 1	943 881-321	1 electrical, 2 optical ports, predictive maintenance, multimode, redundant ring capable, cabinet assembly
OZD PROFIBUS G12DK ATEX 1	943 882-321	1 electrical, 2 optical ports, predictive maintenance, multimode, redundant ring capable, plastic IP67 housing for mounting in ATEX-certified housing
OZD PROFIBUS G12DE ATEX 1	943 883-321	1 electrical, 2 optical ports, predictive maintenance, multimode, redundant ring capable, stainless steel IP67 housing
OZD SFK ATEX 1	943 884-001	Plastics cap with inspection window.

Profibus Plug-on Repeaters

Part No.	Order No.	Description
OZD ProfiPlug P11	943 924-221	1 electrical, 1 optical port, bus-powered, POF 0 – 75 m, HCS 0 – 100 m
OZD ProfiPlug P21	943 924-321	2 electrical, 1 optical port, bus-powered, POF 0 – 75 m, HCS 0 – 100 m

Geniusbus Repeaters

Part No.	Order No.	Description
OZD GENIUS G12	933 989-021	1 electrical, 2 optical ports, redundant ring capable
OZD GENIUS G12 1300	934 233-021	1 electrical, 2 optical ports, singlemode, redundant ring capable

Modbus + Repeaters

Part No.	Order No.	Description
MODBUS PLUS G12	943 740-021	1 electrical, 2 optical ports, redundant ring capable
MODBUS PLUS G12 1300	943 821-021	1 electrical, 2 optical ports, singlemode, redundant ring capable

WorldFIP Repeaters

Part No.	Order No.	Description
OZD FIP G3	933 847-321	1 electrical, 2 optical ports, multimode, redundant ring capable
OZD FIP G3 T	933 847-521	1 electrical, 2 optical ports, multimode, redundant ring capable, bus termination included

