



## OZD Modbus Plus G12

Industrial Networking:FiberINTERFACES:Field Bus:Modbus Plus Repeaters

Delivery informations	
Availability	available
Document created at	30.09.2009
Product description	
Description	interface converter electrical/optical for Modbus Plus-field bus networks; repeater function; for quartz glass und PCF (HCS) FO; approval for Ex-zone 2 (Class 1, Div. 2)
Port type and quantity	2 x optical: 4 sockets BFOC 2.5 (ST&reg) 1 x electrical: Sub-D 9-pin, female, pin assignment according to Modbus Plus-Standard
Type	OZD Modbus Plus G12
Order No.	943 740-021
Electrical interface	
Signal type	Modbus Plus
Bit rate	1 Mbit/s
Signal delay time (optional input/output)	<1 µs
Input/output signal	Modbus Plus Bus
Length of Modbus cable	100 m
Connection capability	max. 31 terminal devices
Terminator	external
Galvanic isolation	shielding/housing: no; data lines/housing: yes
Optical interface	
Wavelength	860 nm
Cascadability	not limited
More Interfaces	
Power supply	5-pin terminal block, screw mounting
Signaling contact	5-pin terminal block, screw mounting
Network size - length of cable	
Single mode fiber (SM) 9/125 µm	-
Multimode fiber (MM) 50/125 µm	2300 m 10 dB link budget at 860 nm; A = 3 dB/km, 3 dB reserve
Multimode fiber (MM) 62.5/125 µm	2300 m 11 dB link budget at 860 nm; A = 3.5 dB/km, 3 dB reserve
Multimode fiber HCS (MM) 200/230 µm	1500 m 16 dB link budget at 860 nm; A = 8 dB/km, 3 dB reserve
Power requirements	
Operating voltage	24 VDC -20% ... 48 VDC +10% non-interchangeable, safety extra-low voltage
Current consumption	120 mA at +24 VDC; 65 mA at + 48 VDC
Power consumption	3.1 W
Redundancy	
Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
Ambient conditions	
Operating temperature	0 °C to +60 °C
Storage/transport temperature	-40 °C to +70 °C
Relative humidity	<95% (non-condensing)
Mechanical construction	
Dimensions (W x H x D)	40 x 111 x 73.5 mm

Mounting	DIN rail or mounting plate
Weight	620 g
Protection class	IP 40
Housing material	die-cast zinc
<b>Approvals</b>	
Issued or requested approvals	cUL Class 1, Div.2; C-Tick
<b>Scope of delivery and accessories</b>	
Scope of delivery	device, start-up instructions
Accessories to order separately	manual, order no. 933 989-901