



OZD Profi G12DK ATEX 1

Industrial Networking:FiberINTERFACES:Field Bus:Profibus Ex-Zone 1 Repeaters

Delivery informations	
Availability	available
Document created at	14.05.2009
Product description	
Description	Interface converter electrical/optical for PROFIBUS networks; in plastics cabinet; repeater function; approvals for protection zones 1,21, 2 and 22
Port type and quantity	2 x optical: 4 sockets BFOC 2.5 (ST®) 1 x electrical: Ex-e single clamp
Type	OZD Profi G12DK ATEX 1
Order No.	943 882-321
Electrical interface	
Signal type	PROFIBUS (DP-V0, DP-V1, DP-V2 und 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)
Signal delay time (optional input/output)	<= 6.5 bit times
Input/output signal	RS 485 level
Input voltage range	-7 V ... +12 V
Galvanic isolation	no
Optical interface	
Wavelength	860 nm
Cascadability	not limited
More Interfaces	
Power supply	Ex-e single clamp
Signaling contact	Ex-e single clamp
Measuring outputs "Optical input power"	Ex-e single clamp
Network size - length of cable	
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
Power requirements	
Operating voltage	18 ... 32 VDC, typ. 24 VDC
Galvanic isolation	yes
Current consumption	max. 200 mA
Power consumption	4.8 W
Output voltage/output current (pin6)	5 VDC +5%, -10%, short circuit-proof/90 mA
Redundancy	
Redundancy functions	HIPER-Ring (ring structure), redundant 24 V infeed
Ambient conditions	
Operating temperature	-20 °C to +55 °C
Storage/transport temperature	-40 °C to +80 °C
Relative humidity	10% to 100%
Mechanical construction	
Dimensions (W x H x D)	165 x 194 x 138 mm
Mounting	screw mounting on the mounting plate

Weight	2.4kg
Protection class	IP 66
Housing material	plastics
Approvals	
Issued or requested approvals	According to directive 94/9/EG (ATEX 95): Ex II 2 G and D (zones 1, 21, 2, 22); cUL 1604 Class 1 Div 2 Groups A, B, C and D; C-Tick
Scope of delivery and accessories	
Scope of delivery	device, start-up instructions
Accessories to order separately	Plastics cap with inspection window OZD SFK ATEX1 order no.: 943 884-001, manual