



Industrial Networking:FiberINTERFACES:Digital:V.24/RS 232 Single-Channel Modules

Product description

Description	interface converter electrical/optical for V.24; for quartz glass FO; for plugging onto the Sub-D socket provided on the terminal or mounting onto a DIN rail (with DIN rail adapter accessories)
Port type and quantity	1 electrical port: 25-pin Sub-D connector, male; 1 optical port: 2 sockets BFOC 2.5 (STR)
Setting possibilities	DTE- or DCE operating mode voltage supply internally via pin 11/pin 18 Sub-D socket or externally via low voltage socket shield ground galvanically connected or not connected to signal ground
Type	OZDV 2471 G
Order No.	943 341-021

Electrical interface

Signal type	V.24 (RS 232 D) interface level
Bit rate	DC to 115 kbit/s (DC coupling)
Bit error frequency	< 10 ⁻⁹
Terminal assignment data	pin 1: PGND; pin 7: GND; pin 11: Vcc; pin 4+5 und pin 6+8+20 bridged DTE operation: pin 2 TxD, pin 3 RxD DCE operation: pin 2 RxD, pin 3 TxD

Optical interface

Wavelength	860 nm
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More Interfaces

Power supply	4-pin low voltage plug, M8 shape according to IEC 947-5-2 or 25-pin Sub-D connector (pin 11/pin 18)
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Network size - length of cable

Multimode fiber (MM) 50/125 µm	0 - 6700 m 23 dB link budget, A = 3.0 dB/km, 3 dB reserve
Multimode fiber (MM) 62.5/125 µm	0 - 6600 m 26 dB link budget, A = 3.5 dB/km, 3 dB reserve
Multimode fiber HCS (MM) 200/230 µm	0 - 3100 m 28 dB link budget, A = 8.0 dB/km, 3 dB reserve

Power requirements

Operating voltage	+5 VDC via PSW 5-24 plug-in power supply or + 5 VDC +-5% external supply or +8 ... +15 VDC external supply
Current consumption	90 mA (max. 120 mA)
Power consumption	0.6 W/1.8 W

Ambient conditions

Operating temperature	-20 °C to +50 °C
Storage/transport temperature	-20 °C to +70 °C
Relative humidity	10% to 90%

Mechanical construction

Dimensions (W x H x D)	56.5 x 18 x 76 mm
Mounting	plugging onto the terminal unit
Weight	110 g
Protection class	IP 40
Housing material	die-cast zinc

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD)	contact discharge: 4 kV, air discharge: 8 kV
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EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV (plug-in power supply 220 V side)
EN 61000-4-5 surge voltage	power line: 1 kV (line/line), 2 kV (line/earth) (plug-in power supply 220 V side)
EMC emitted immunity	
EN 55022	EN 55022 limit class B
Approvals	
Issued approvals	C-Tick
Scope of delivery and accessories	
Scope of delivery	device, operating instructions
Accessories to order separately	plug-in power supply PSW 5-24 DIN rail adapter OZDV HA