



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

Product description	
Description	interface converter electrical/optical for V.24; power supply through data signal; for plastic 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 external voltage supply via pin 11 or internally from the data signal shield ground galvanically connected or not connected to signal ground
Type	OZDV 2451 P
Order No.	943 316-021
Electrical interface	
Signal type	V.24 (RS 232 D) interface level
Bit rate	DC to 20 kbit/s (DC coupling)
Bit error frequency	< 10 ⁻⁹
Terminal assignment data	pin 1: PGND; pin 7: GND; pin 11: Vcc; pin 4+5 and pin 6+8+20 bridged DTE operation: pin 2 TxD, pin 3 RxD DCE operation: pin 2 RxD, pin 3 TxD
Optical interface	
Wavelength	665 nm
More Interfaces	
Power supply	from the data signal (electrical interface) or 25-pin Sub-D connector (pin 11)
Network size - length of cable	
Multimode fiber POF (MM) 980/1000 µm	0 - 60 m 17 dB link budget, A = 0.25 dB/m, 2 dB reserve
Power requirements	
Operating voltage	no external power supply required; with supply via pin 11: -20 V ... -5 V or +5 V ... +20 V
Current consumption	3.3 mA (max. 3.8 mA) via data signal
Power consumption	20 mW at 4.5 V
Ambient conditions	
Operating temperature	0 °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
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
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, 2 BFOC ST optical plugs
Accessories to order separately	DIN rail adapter OZDV HA