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FO converter, for converting 100Base-T to polymer and PCF fiber (660 nm), SC-RJ FO connection (PROFINET standard), can be mounted on a DIN rail, 24 V DC supply

#### **Product Description**

Optical transmission with FO technology provides superior immunity to interference at maximum transmission ranges without restricting the transmission bandwidth.

You can therefore replace wear-sensitive and maintenance-intensive connections and reduce downtimes in your systems.

#### Your advantages

- Link fault pass through (LFPT) function for easy connection monitoring
- ✓ Very low delay times
- ☑ Backplane bus contact, enabling alternative or redundant 24 V power supply



## **Key Commercial Data**

Packing unit	1 pc
GTIN	4 055626 431260
GTIN	4055626431260
Weight per Piece (excluding packing)	160.000 g
Custom tariff number	85176200
Country of origin	Germany

#### Technical data

#### Note

I Utilization restriction	EMC: class A product, see manufacturer's declaration in the download
Cuitzation resultation	area



# Technical data

## Dimensions

Caption	Slim design
Width	22.5 mm
Height	99 mm
Depth	114.5 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Altitude	$\leq$ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Degree of protection	IP20

#### General

Electrical isolation	VCC // Ethernet
Test voltage data interface/power supply	1500 V
	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Mounting type	DIN rail mounting
Net weight	172.7 g
Housing material	PA V0
Color	green
MTTF	929 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	461 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	204 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

## Power supply

Connection method	Plug-in screw terminal block (COMBICON), redundancy possible
Supply voltage range	18 V DC 32 V DC (via pluggable COMBICON screw terminal block)
	18 V DC 32 V DC (as an alternative or redundant, via backplane bus contact and system current supply)
Max. current consumption	100 mA (24 V DC)
Typical current consumption	≤ 85 mA (24 V DC)
Protective circuit	Reverse polarity protection
Connection method	Plug-in screw terminal block (COMBICON), redundancy possible

### Interfaces

Interface 1	Ethernet interface, 100Base-T(X) in accordance with IEEE 802.3
No. of ports	1



# Technical data

#### Interfaces

Connection method	RJ45 jack, shielded
Transmission medium	Copper
Transmission length	100 m (shielded twisted pair)
Link through	Link fault pass through
Transmission speed	100 Mbps

# Optical interface FO

Transmit capacity, minimum	min8 dBm ((980/1000 µm) static)
	min19 dBm ((200/230 µm) static)
Transmit capacity, maximum	max2 dBm ((980/1000 μm) static)
	max11 dBm ((200/230 μm) static)
Minimum receiver sensitivity	-23 dBm ((980/1000 μm) static)
	-26.8 dBm ((200/230 μm) static)
Wavelength	660 nm
Transmission length incl. 3 dB system reserve	50 m (Polymer fiber with F-P 980/1000 230 dB/km)
	100 m (PCF fiber with F-K 200/230 8 dB/km)
Transmission medium	Polymer fiber
	PCF fiber
Connection method	SC-RJ

## Digital outputs

Output name	Relay output
Number of outputs	2
Contact type	N/O contact
Maximum switching voltage	60 V AC/DC
Max. switching current	1 A

## Conformance/approvals

Designation	CE
Identification	CE-compliant
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

## Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Type of test	Free fall in acc. with IEC 60068-2-32
Test result	1 m
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz, 1.5 h, in XYZ direction



# Technical data

## Standards and Regulations

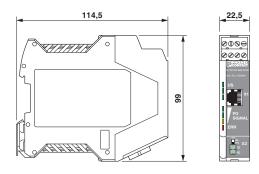
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms period, half-sine shock pulse
Free from substances that could impair the application of coating	according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard
Standards/regulations	EN 61000-4-2
Contact discharge	± 6 kV (Test Level 3)
Indirect discharge	± 6 kV
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz 3 GHz (Test Level 3)
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Signal	± 1 kV (Shielded cable)
Standards/regulations	EN 61000-6-4
	EN 61000-4-6
Frequency range	0.15 MHz 80 MHz
Conducted noise emission	EN 61000-6-3 Class B, domain of use: residential and small commercial
Designation	Air clearances and creepage distances

## **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

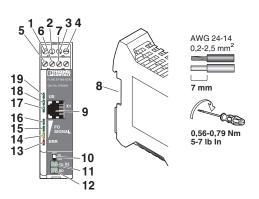
# **Drawings**

### Dimensional drawing



Slim design

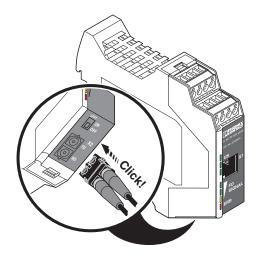
### Schematic diagram



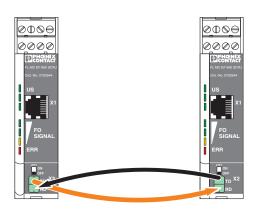
Function elements



Schematic diagram

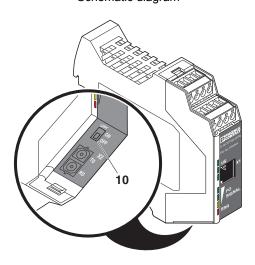


Schematic diagram



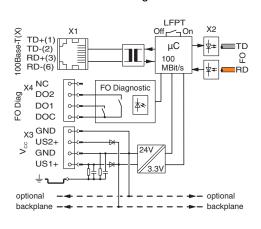
Connect the SC-RJ plug

Schematic diagram



Signal direction for the fiber connection

Block diagram



Switch for disabling LFPT

## Classifications

### eCl@ss

eCl@ss 10.0.1	19170132
eCl@ss 11.0	19170411
eCl@ss 7.0	19170114
eCl@ss 9.0	19170114



# Classifications

### **ETIM**

ETIM 6.0	EC001467
ETIM 7.0	EC001467

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