

PSM-EG-PROFIB/FO-E/G - FO converters



2744364
<https://www.phoenixcontact.com/us/products/2744364>

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The figure shows versions PSM-EG-PROFIB/FO-E/G and PSM-EG-PROFIB/FO-T/G

Terminal equipment for converting RS-485 PROFIBUS to one fiber optic cable, fiberglass, connection system: B-FOC, rail-mountable

Commercial data

Item number	2744364
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN06
Product key	DNC221
GTIN	4017918190491
Weight per piece (including packing)	284.8 g
Weight per piece (excluding packing)	284.8 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Electrical properties

Electrical isolation	RS-485 // supply
Maximum power dissipation for nominal condition	2.64 W
Test voltage data interface/power supply	2 kV AC

Supply

Nominal supply voltage	24 V DC ± 20 % (via COMBICON)
Typical current consumption	max. 110 mA

Output data

Switching

Output name	Relay output
Output description	Alarm output
Number of outputs	1
Maximum switching voltage	60 V AC/DC
Limiting continuous current	1 A

Interfaces

Bit distortion, input	± 35 %
Bit distortion, output	± 5 %
Bit delay	≤ 0.8 bit
Signal	PROFIBUS

Data: optical FO

Transmission power	28.18 μ W (-15.5 dBm at 50/125 μ m)
	63.1 μ W (-12 dBm at 62,5/125 μ m)
Transmit capacity, minimum	-15.5 dBm (50/125 μ m)
	-12 dBm (62,5/125 μ m)
Transmission length incl. 3 dB system reserve	2700 m (with F-G 50 50/125 2,4 dB/km)
	2100 m (with F-G 50/125 3.0 dB/km)
	2900 m (with F-G 62,5/125 3,4 dB/km)
	3300 m (with F-G 62,5/125 3.0 dB/km)
	2600 m (with F-G 50/125 2.5 dB/km)
Transmission protocol	Acc. to technical guideline PNO, FA2, AK 1.2 transparent to protocol to the RS-485 interface
Connection method	B-FOC (ST®)
Wavelength	850 nm
Minimum receiver sensitivity	-25 dBm (50/125 μ m)
	-25 dBm (62,5/125 μ m)

Data: RS-485 interface, PROFIBUS in acc. with DIN 19245-1,-2,-3 and EN 50170, 2-wire

Serial transmission speed	9.6/ 19.2/ 93.75/ 187.5/ 500/ 1500 kbps
Connection method	D-SUB-9 female connector

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	COMBICON
Termination resistor	220 Ω can be connected; pull up/down 390 Ω
Conductor cross-section flexible max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section AWG max.	14
Conductor cross-section AWG min.	24
File format/coding	UART (11 Bit, NRZ)
Data direction switching	Automatic control

Dimensions

Width	45 mm
Height	75 mm
Depth	112 mm

Material specifications

Color (Housing)	green (RAL 6021)
Material (Housing)	ABS

Cable/line

FO cable

Fiber types	50/125 μ m
	62.5/125 μ m
	Fiberglass

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 50 °C

EMC data

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise immunity	EN 50 082-2

Noise emission

Standards/regulations	EN 50081-2
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Standards and regulations

Electrical isolation	RS-485 // supply
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Mounting

Mounting type	DIN rail mounting
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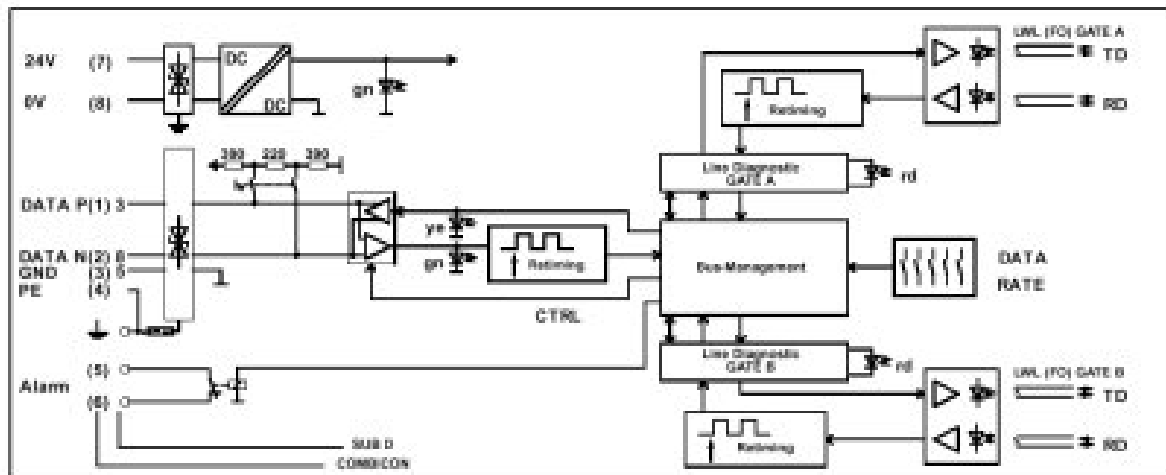
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Drawings

Circuit diagram



Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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