

# PSM-EG-RS485W2/FO-E/K - FO converters



2761486

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Terminal equipment for converting RS-485 PROFIBUS, RS-485-SUCONET-K or RS-485 2-wire cable to a fiber optic cable, polymer/PCF fiber, connection system: F-SMA, rail-mountable

The figure shows versions PSM-EG-RS485W2/FO-T/G and PSM-EG-RS485W2/FO-T/K

## Product description

This FO converter is no longer available.

Successor product is PSI-MOS-RS485W2/FO 660 E (Item No. 2708313) for RS-485 bus systems.

The FO converter PSI-MOS-PROFIB/FO 660 E (Item No. 2708290) is suitable for PROFIBUS networks.

## Commercial data

Item number	2761486
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN06
Product key	DNC222
GTIN	4017918148690
Weight per piece (including packing)	259.4 g
Weight per piece (excluding packing)	259.4 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 $\pm 20\%$ (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	$\pm 35\%$
Bit distortion, output	$\pm 5\%$
Bit delay	$\leq 0.8$ bit
Signal	PROFIBUS
	Modbus
	S-BUS
	Suconet K

#### Data: optical FO

Transmission power	204.17 $\mu$ W (-6.9 dBm at 980/1000 $\mu$ m)
	19.5 $\mu$ W (-17.1 dBm at 200/230 $\mu$ m)
Transmit capacity, minimum	-6.6 dBm (980/1000 $\mu$ m)
	-17.8 dBm (200/230 $\mu$ m)
Transmission length incl. 3 dB system reserve	70 m (F-P 980/1000 230 dB/km with quick mounting connector)
	400 m (F-K 200/230 10 dB/km with quick mounting connector)
Transmission protocol	Protocol-transparent to the RS-485 interface
Connection method	F-SMA connector
Wavelength	660 nm
Minimum receiver sensitivity	-26.4 dBm (980/1000 $\mu$ m)
	-27.9 dBm (200/230 $\mu$ 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	150 Ω can be connected; pull up/down 390 Ω
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
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	200/230 μm
	980/1000 μm
	PCF fiber
	Polymer fiber

## 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

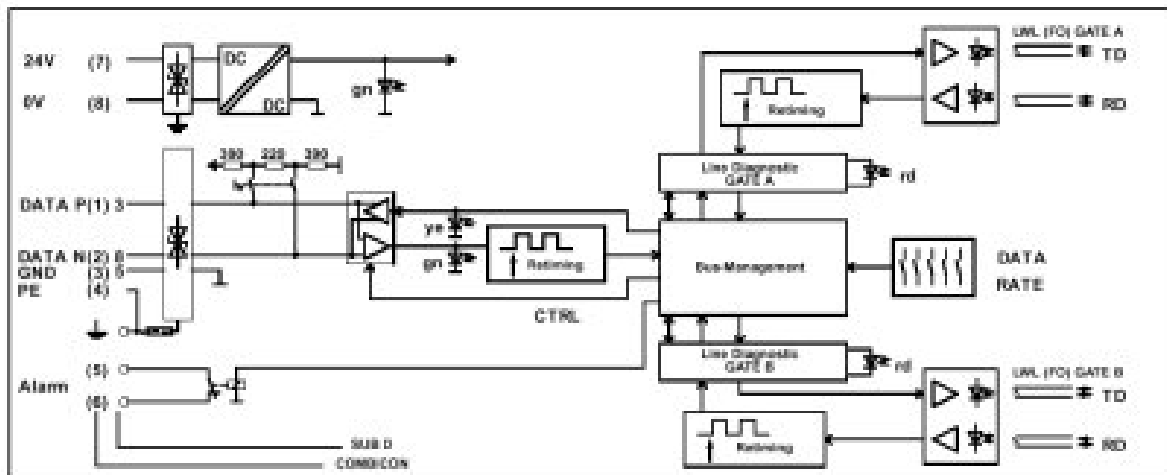
Mounting type	DIN rail mounting
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Drawings

Circuit diagram



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## 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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