

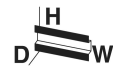
# PSI-MOS-RS485W2/FO1300 E


Order No.: 2708562



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2708562>


FO converter with integrated optical diagnostics, alarm contact, for RS-485 2-wire bus systems (SUCONET K, MODBUS ...) up to 500 kbps, NRZ coding, termination device with an FO interface (SC-Duplex), 1300 nm, for glass fiber cable



Commercial data	
GTIN (EAN)	 4 046356 176279
sales group	H622
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 507 (IF-2009)

**Product notes**

WEEE/RoHS-compliant since:  
07/31/2007



<http://www.download.phoenixcontact.com>  
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Technical data	
<b>Serial interface</b>	
Interface 1	RS-485 interface, 2-wire
Operating mode	Semi-duplex
File format/coding	UART (11/10 bit switchable; NRZ), slip-tolerant

Data direction switching	Automatic control
Termination resistor	220 $\Omega$ can be connected; pull up/down 390 $\Omega$
Transmission length	max. 1200 m (depending on the data rate, with shielded, twisted data cable)
Connection method	Pluggable screw connection
Serial transmission speed	4,8/ 9,6/ 19,2/ 38,4/ 57,6/ 75/ 93,75/ 115,2/ 136/ 187,5/ 375/ 500

#### Optical interface FO

Wavelength	1300 nm
Transmission length incl. 3 dB system reserve	25 km (With F-G 50/125 0.7 dB/km at 1300 nm) 22 km (with F-G 62.5/125 0.8 dB/km at 1300 nm) 45 km (With F-E 9/125 0,4 dB/km at 1300 nm)
Transmission protocol	Protocol-transparent to the RS-485 interface
Connection method	SC duplex

#### Fault warning output

Maximum switching voltage	60 V DC 42 V AC
Limiting continuous current	1 A

#### Power supply

Nominal supply voltage	24 V DC $\pm$ 25%
Supply voltage range	18 V DC ... 32 V DC
Typical current consumption	110 mA (24 V DC)
Connection method	COMBICON plug-in screw terminal block

#### General data

Bit distortion, input	$\pm$ 35 % (permitted)
Bit distortion, output	< 6.25 %
Width	35 mm
Height	99 mm
Depth	105 mm
Ambient temperature (storage/transport)	-40 $^{\circ}$ C ... 85 $^{\circ}$ C
Ambient temperature (operation)	-20 $^{\circ}$ C ... 60 $^{\circ}$ C
Electrical isolation	(VCC // RS-485)
Test voltage data interface/power supply	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 55011

Noise immunity	EN 61000-6-2:2005
Degree of protection	IP20
Housing material	PA V0, color green
Color	green
MTBF	484 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	102 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
ATEX	Ex II 3 G Ex nAC IIC T4 X
UL, USA / Canada	cUL 508 Recognized

### Certificates / Approvals



Certification CUL, UL

### Accessories

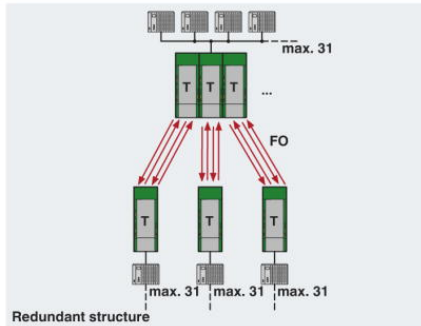
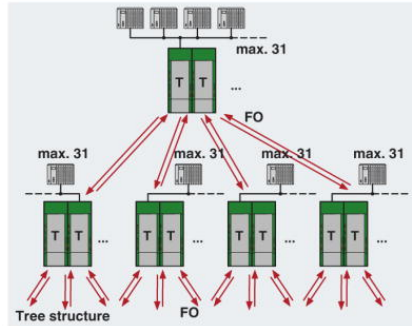
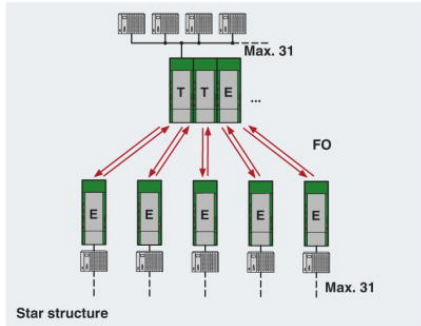
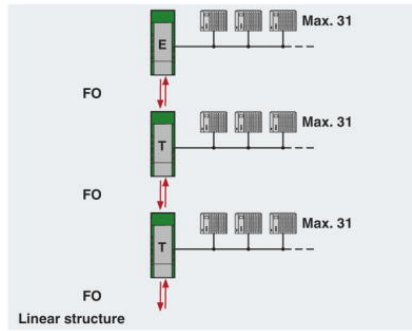
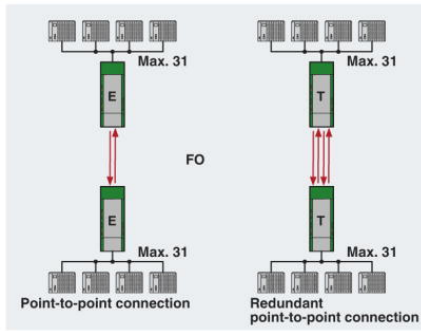
Item	Designation	Description
<b>Cable/conductor</b>		
2989161	FL MM PATCH 1,0 LC-SC	Assembled fiber optic cable, break-out cable, glass fiber multi-mode 50/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2901805	FL MM PATCH 1,0 SC-SC	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2901812	FL MM PATCH 1,0 SC-SCRJ	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2901809	FL MM PATCH 1,0 SC-ST	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / B-FOC, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2989268	FL MM PATCH 2,0 LC-SC	Assembled fiber optic cable, break-out cable, glass fiber multi-mode 50/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 meter

2901807	FL MM PATCH 2,0 SC-SC	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 meters
2901813	FL MM PATCH 2,0 SC-SCRJ	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 meters
2901810	FL MM PATCH 2,0 SC-ST	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 2 meters
2901800	FL MM PATCH 5,0 LC-SC	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, plug: LC / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
2901808	FL MM PATCH 5,0 SC-SC	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
2901814	FL MM PATCH 5,0 SC-SCRJ	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
2901811	FL MM PATCH 5,0 SC-ST	Assembled FO cable, break out cable, multi-mode glass fiber 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
2989190	FL SM PATCH 1,0 LC-SC	Assembled fiber optic cable, break-out cable, glass fiber single mode 9/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2901829	FL SM PATCH 1,0 SC-SC	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2901832	FL SM PATCH 1,0 SC-ST	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 meter
2989297	FL SM PATCH 2,0 LC-SC	Assembled fiber optic cable, break-out cable, glass fiber single mode 9/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 meters
2901830	FL SM PATCH 2,0 SC-SC	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 meters

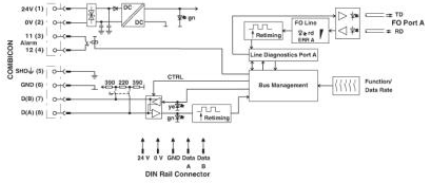
2901833	FL SM PATCH 2,0 SC-ST	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 2 meters
2901827	FL SM PATCH 5,0 LC-SC	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: LC / SC Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
2901831	FL SM PATCH 5,0 SC-SC	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: SC Duplex / SC-Duplex protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
2901834	FL SM PATCH 5,0 SC-ST	Assembled FO cable, break out cable, single-mode glass fiber 9/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 meters
1402193	FOC-GDM-RUGGED-1016/...	rugged GOF installation cable for inner areas with highly tear-proof aramid strain-relief elements. Individual elements consist of highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.
2901558	FOC-GDM-RUGGED-1016/IP20/...	rugged GOF installation cable (IP20 heads only) for inner areas with highly tear-proof aramid strain-relief elements. Individual elements consist of highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.
1402194	FOC-GDO-1017/...	Highly rugged GOF round cable for assembly and for outdoor installation with integrated moisture barrier as well as rodent-proof scrim. Individual elements made from highly flexible FRNC material. The wire is ozone and UV resistant with a very rugged polyethylene outer sheath.
2901559	FOC-GDO-1017/IP20/...	Highly rugged GOF round cable (IP20 heads only) for assembly and for outdoor installation with integrated moisture barrier as well as rodent-proof scrim. Individual elements made from highly flexible FRNC material. The wire is ozone and UV resistant with a very rugged polyethylene outer sheath.
2799322	PSM-LWL-GDM-RUGGED-50/125	Glass fiber cable, duplex 50/125 µm, by the meter, without connector, for indoor installation
2799432	PSM-LWL-GDO- 50/125	Glass fiber cable, duplex 50/125 µm, by the meter, without connector, for outdoor installation
<b>General</b>		
2313944	PSI-TERMINATOR-PB	Active termination resistor with redundant voltage supply for PROFIBUS and RS-485 bus systems. Compact design. Electrical isolation between supply and data interface. Bus termination can be switched. Integrated programming interface.

Diagrams/Drawings

Application drawing



Block diagram



**Address**

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