

PSI-MOS-RS485W2/FO 850 T - FO converters



2708326

<https://www.phoenixcontact.com/us/products/2708326>

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FO converter with integrated optical diagnostics, alarm contact, for RS-485 2-wire bus systems (SUCONET K, Modbus ...) up to 500 kbps, NRZ coding, T-coupler with two FO interfaces (BFOC), 850 nm, for PCF/fiberglass cable (multimode)

Product description

The **PSI-MOS-RS485W2/FO...** FO converters convert the electrical data signal into an optical one by protocol transparent means. The integrated optical diagnostics allow permanent monitoring of the FO paths during installation and also during operation. The floating switch contact is activated when the signal output on the fiber optic paths drops to a critical level. The **PSI-MOS-RS485W2/FO... T** T-couplers allow the interface to be converted for **two FO cables**. They can be used to create linear structures and redundant structures for increased system availability.

Your advantages

- Can be combined with the PSI copper repeater in a modular way using DIN rail connectors
- Supply voltage and data signals routed through the DIN rail connectors
- Connections can be plugged in via a COMBICON screw terminal block
- Automatic data rate detection or fixed data rate setting via DIP switches
- High-quality electrical isolation between all interfaces (RS-485 // fiber optic ports // power supply // DIN rail connector)
- Redundant power supply possible by means of optional system power supply unit
- Approved for use in zone 2
- Intrinsically safe fiber optic interface (Ex op is) for direct connection to devices in zone 1
- Integrated optical diagnostics for continuous monitoring of FO paths
- Floating switch contact for advance warning of critical FO paths
- Suitable for data rates up to 500 kbps
- Bit retiming for any cascading depth
- Shipbuilding approval in accordance with DNV GL

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2708326 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN06 |
| Product key | DNC212 |
| Catalog page | Page 435 (C-6-2019) |
| GTIN | 4017918974022 |
| Weight per piece (including packing) | 264.1 g |

PSI-MOS-RS485W2/FO 850 T - FO converters



2708326

<https://www.phoenixcontact.com/us/products/2708326>

| | |
|--------------------------------------|----------|
| Weight per piece (excluding packing) | 210.08 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

Technical data

Notes

Utilization restriction

| | |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

Utilization restriction

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

Product properties

| | |
|--------------|---|
| Product type | Media converter |
| MTTF | 652 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 286 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%) |
| | 118 Years (SN 29500 standard, temperature 40°C, operating cycle 100%) |
| MTBF | 159 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 24 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |

Electrical properties

| | |
|---|---------------------------------------|
| Electrical isolation | VCC // RS-485 |
| Maximum power dissipation for nominal condition | 2.88 W |
| Test voltage data interface/power supply | 1.5 kV _{rms} (50 Hz, 1 min.) |

Supply

| | |
|-----------------------------|--|
| Supply voltage range | 18 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Nominal supply voltage | 24 V DC (in acc. with UL) |
| Typical current consumption | 120 mA (24 V DC) |
| Max. current consumption | 130 mA |
| | ≤ 2 A (For operation in a joining station, via the DIN rail connector) |

Output data

Switching

| | |
|-----------------------------|--|
| Output name | Relay output |
| Output description | Alarm output |
| Number of outputs | 1 |
| Maximum switching voltage | 60 V DC (Resistive Load, General Load) |
| | 30 V AC (Resistive load) |
| | 42 V AC (peak, resistive load) |
| Limiting continuous current | 0.46 A |

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2708326

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Connection data

Supply

| | |
|-------------------|---------------------------------------|
| Connection method | COMBICON plug-in screw terminal block |
| Stripping length | 7.00 mm |
| Tightening torque | 0.56 Nm ... 0.79 Nm |

Interfaces

| | |
|------------------------|--------------------|
| Bit distortion, input | ± 35 % (permitted) |
| Bit distortion, output | < 6.25 % |
| Bit delay | ≤ 1 bit |
| Signal | Modbus |
| | S-BUS |
| | Suconet K |
| | J-BUS |
| | DATA HIGHWAY |

Data: optical FO

| | |
|---|--|
| No. of channels | 2 |
| Transmit capacity, minimum | -4 dBm (200/230 µm) |
| | -17.6 dBm (50/125 µm) |
| | -14 dBm (62,5/125 µm) |
| Transmission length incl. 3 dB system reserve | 2800 m (F-K 200/230 8 dB/km with quick mounting connector) |
| | 4200 m (with F-G 50/125 2.5 dB/km) |
| | 3300 m (with F-G 62,5/125 3.0 dB/km) |
| Transmission protocol | Protocol-transparent to the RS-485 interface |
| Connection method | B-FOC (ST®) |
| Wavelength | 850 nm |
| Minimum receiver sensitivity | -32.5 dBm (50/125 µm) |
| | -32.5 dBm (62,5/125 µm) |
| | -32.1 dBm (200/230 µm) |
| Maximum receiver sensitivity | -3 dBm (200/230 µm) |
| Transmission medium | PCF fiber |
| | Multi-mode fiberglass |

Data: RS-485 interface, 2-wire

| | |
|--|--|
| Serial transmission speed | 4.8/ 9.6/ 19.2/ 38.4/ 57.6/ 75/ 93.75/ 115.2/ 136/ 187.5/ 375/ 500 kbps |
| Connection method | Pluggable screw connection |
| Transmission length | ≤ 1200 m (depending on the data rate, with shielded, twisted data cable) |
| Termination resistor | 390 Ω (Can be connected) |
| | 220 Ω |
| | 390 Ω |
| Single conductor/terminal point, rigid | 0.2 mm² ... 2.5 mm² |

PSI-MOS-RS485W2/FO 850 T - FO converters



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| | |
|--|---|
| Single-wire/terminal point, flexible | 0.2 mm² ... 2.5 mm² |
| Max. AWG conductor cross section, flexible | 14 |
| Min. AWG conductor cross section, flexible | 24 |
| Single-wire/terminal point, rigid AWG max. | 14 |
| Single-wire/terminal point, rigid AWG min. | 24 |
| Transmission medium | Copper |
| File format/coding | UART (11/10 bit switchable; NRZ), slip-tolerant |
| Data direction switching | Automatic control |

Dimensions

| | |
|--------|--------|
| Width | 35 mm |
| Height | 99 mm |
| Depth | 105 mm |

Material specifications

| | |
|--------------------|-----------------|
| Color (Housing) | gray (RAL 7042) |
| Material (Housing) | PA 6.6-FR |

Cable/line

FO cable

| | |
|-------------|-------------|
| Fiber types | 200/230 µm |
| | 50/125 µm |
| | 62.5/125 µm |
| | PCF fiber |
| | Fiberglass |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| | ≤ 2000 m (Hazardous locations) |
| Permissible humidity (operation) | 30 % ... 95 % (non-condensing) |

Approvals

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

ATEX

| | |
|----------------|--|
| Identification | Ⓔ II 3 G Ex ec IIC T4 Gc |
| Certificate | UL 21 ATEX 2550X |
| Note | Please follow the special installation instructions in the |

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| | |
|--|----------------|
| | documentation! |
|--|----------------|

ATEX, FO interface

| | |
|----------------|---|
| Identification | Ex II (2) G [Ex op is Gb] IIC Ex II (2) D [Ex op is Db] IIC |
| Certificate | PTB 06 ATEX 2042 U |
| Note | Please follow the special installation instructions in the documentation! |

IECEX

| | |
|----------------|---------------------|
| Identification | Ex ec IIC T4 Gc |
| Certificate | IECEX ULD 21.00013X |

UL, USA/Canada

| | |
|----------------|--|
| Identification | Class I, Zone 2, AEx ec IIC T4 Gc Ex ec IIC T4 Gc X Class I, Div. 2, Groups A, B, C, D |
|----------------|--|

KC approval for South Korea

| | |
|-------------|----------------------|
| Certificate | MSIP-REI-PCK-2708326 |
|-------------|----------------------|

Corrosive gas test

| | |
|----------------|----------------------------------|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |
|----------------|----------------------------------|

Shipbuilding

| | |
|----------------|--------|
| Identification | DNV GL |
|----------------|--------|

DNV GL data

| | |
|-------------|---|
| Temperature | B |
| Humidity | A |
| Vibration | A |
| EMC | B |
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |

EMC data

| | |
|-------------------------------|---|
| Noise immunity | EN 61000-6-2:2005 |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission | EN 55011 |

Electrostatic discharge

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

Electrostatic discharge

| | |
|-------------------|-------------|
| Contact discharge | ± 6 kV |
| Discharge in air | ± 8 kV |
| Comments | Criterion B |

Electromagnetic HF field

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| | |
|----------------------------|--|
| Standards/regulations | EN 61000-4-3 |
| Electromagnetic HF field | |
| Field intensity | 10 V/m |
| Comments | Criterion A |
| Fast transients (burst) | |
| Standards/regulations | EN 61000-4-4 |
| Fast transients (burst) | |
| Input | ± 2 kV |
| Signal | ± 2 kV |
| Comments | Criterion B |
| Surge current load (surge) | |
| Standards/regulations | EN 61000-4-5 |
| Surge current load (surge) | |
| Input | ± 0.5 kV |
| Signal | ± 1 kV |
| Comments | Criterion B |
| Conducted interference | |
| Standards/regulations | EN 61000-4-6 |
| Conducted interference | |
| Comments | Criterion A |
| Voltage | 10 V |
| Emitted interference | |
| Standards/regulations | EN 55011 |
| Comments | Class A, industrial applications |
| Criteria | |
| Criterion A | Normal operating behavior within the specified limits. |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself. |

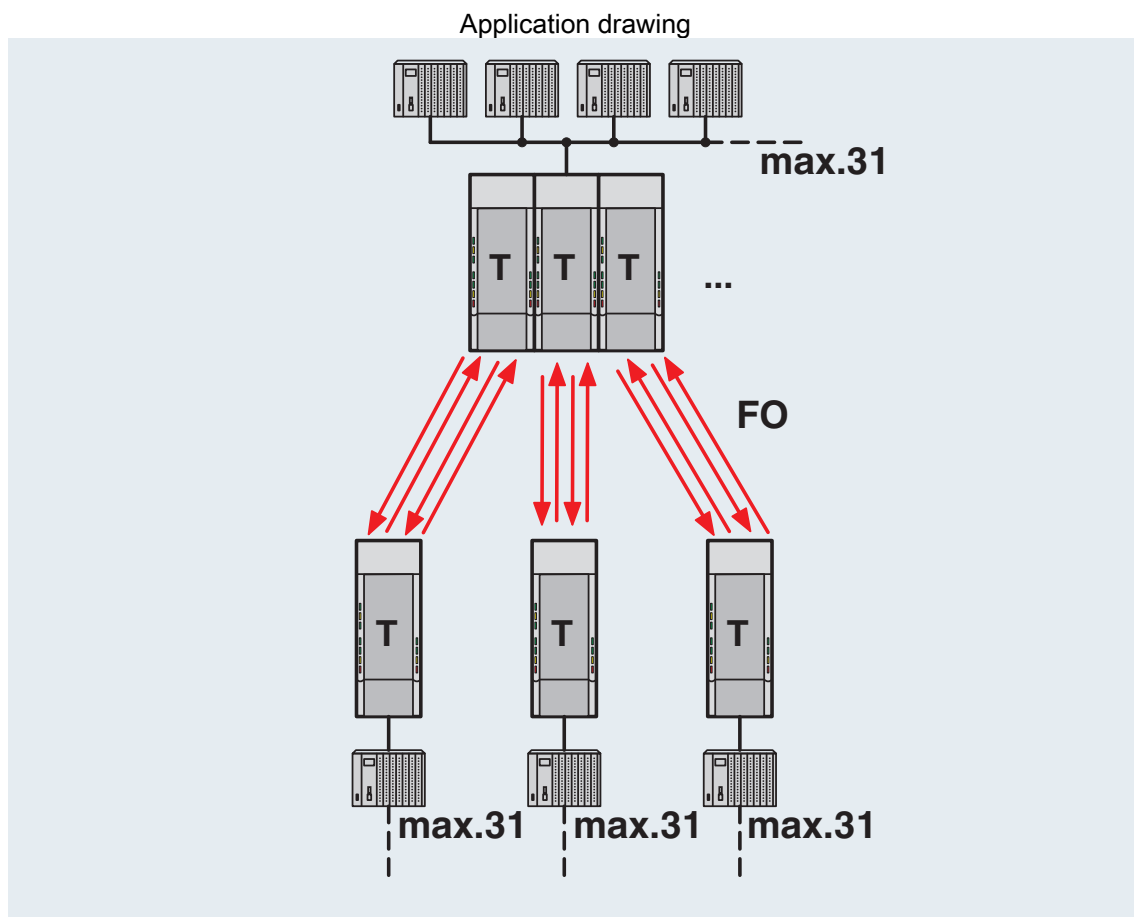
Standards and regulations

| | |
|---|--|
| Free from substances that could impair the application of coating | in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0 |
|---|--|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Drawings



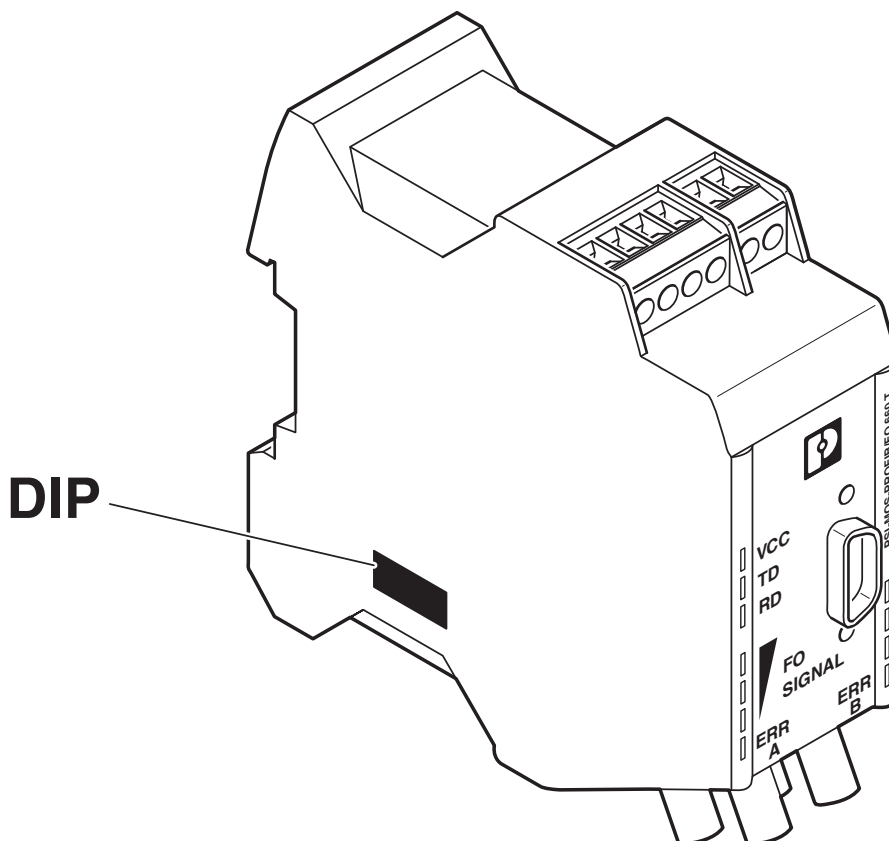
Redundant structure

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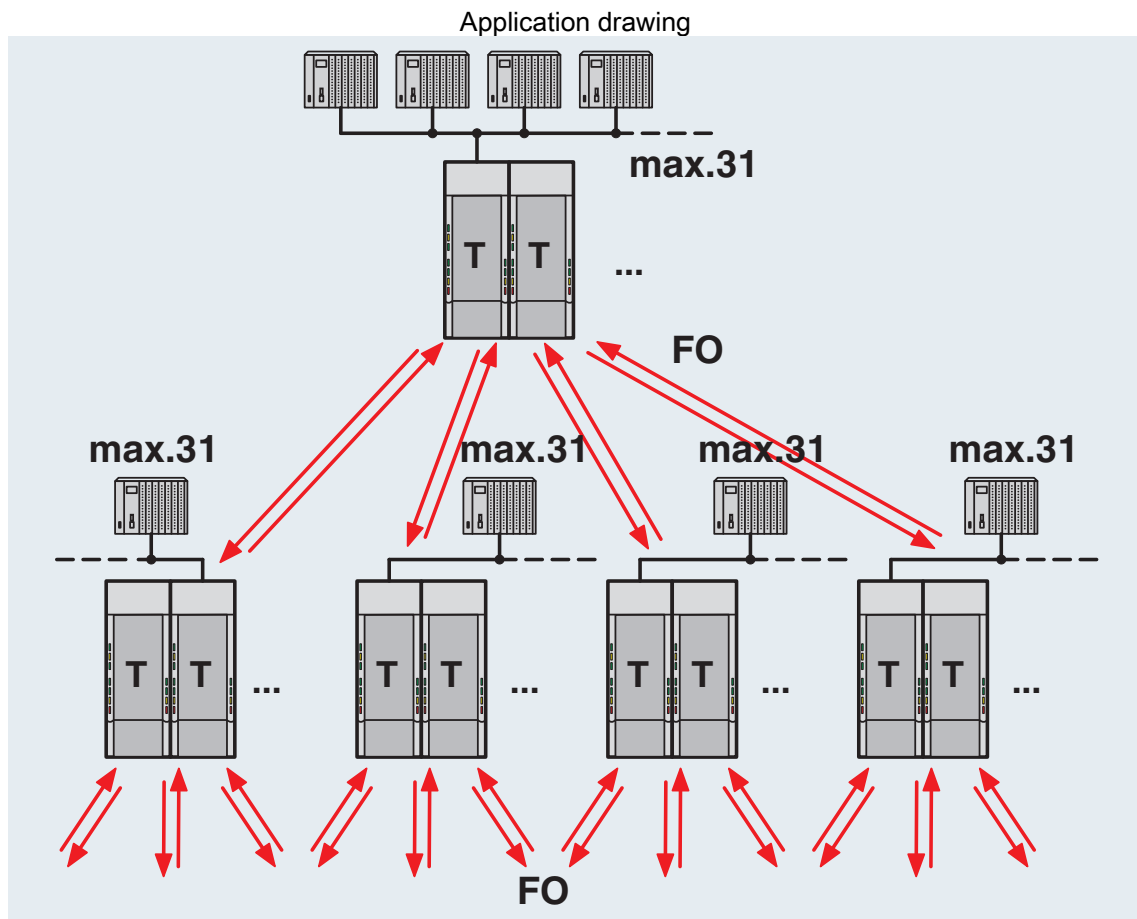
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Schematic diagram



Position of DIP switches



Tree structure

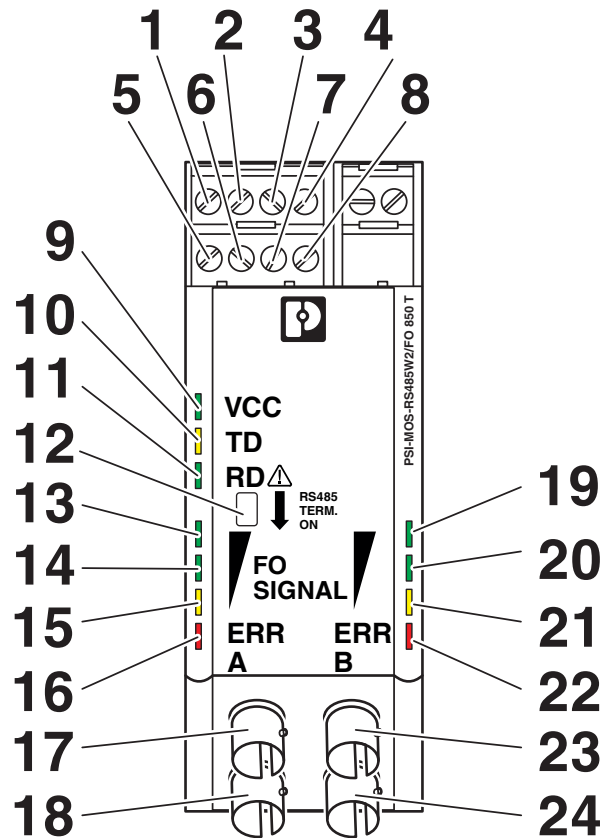
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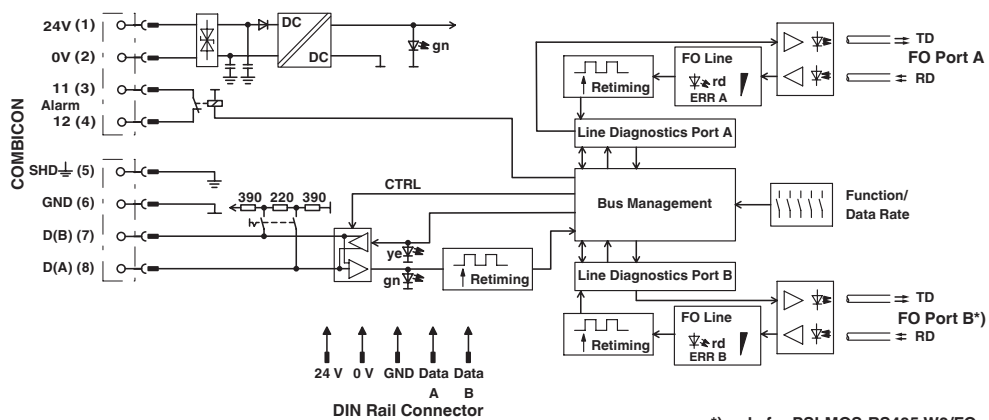
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Schematic diagram



Front view

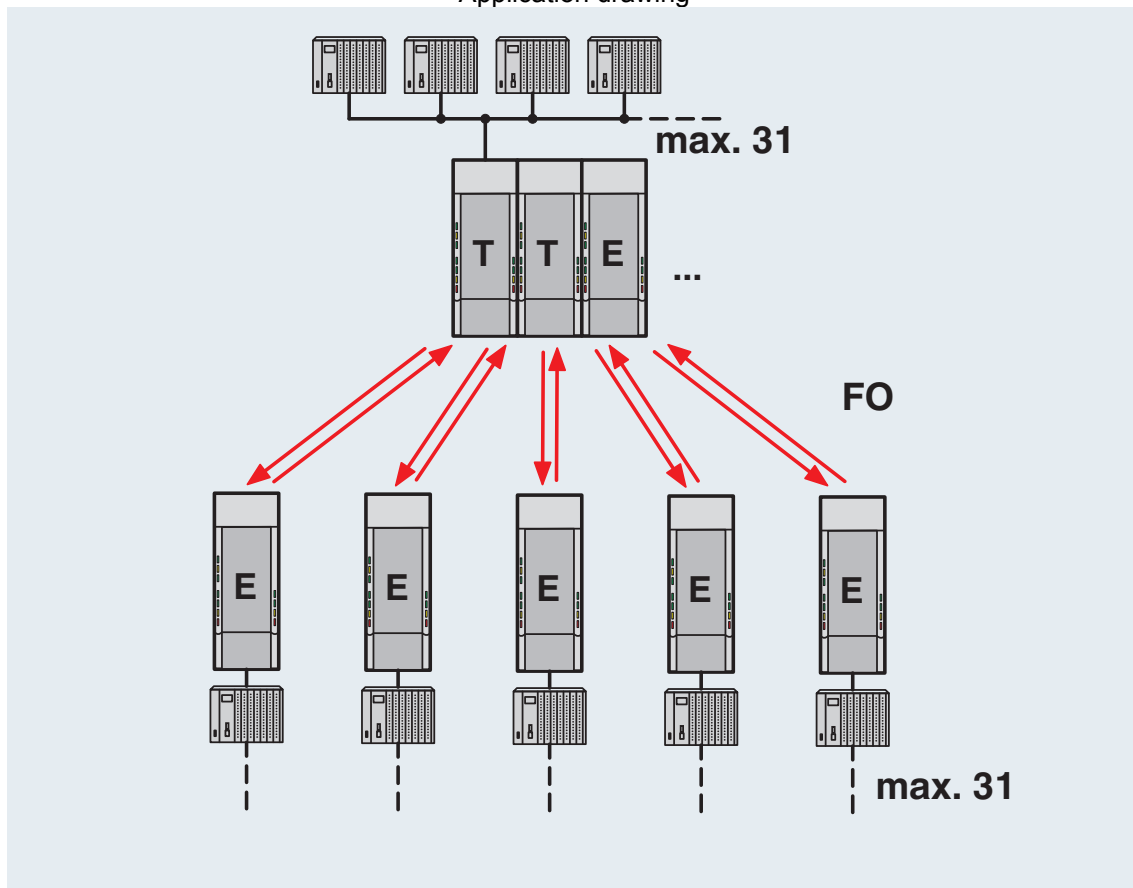
Block diagram



*) only for PSI-MOS-RS485 W2/FO...T

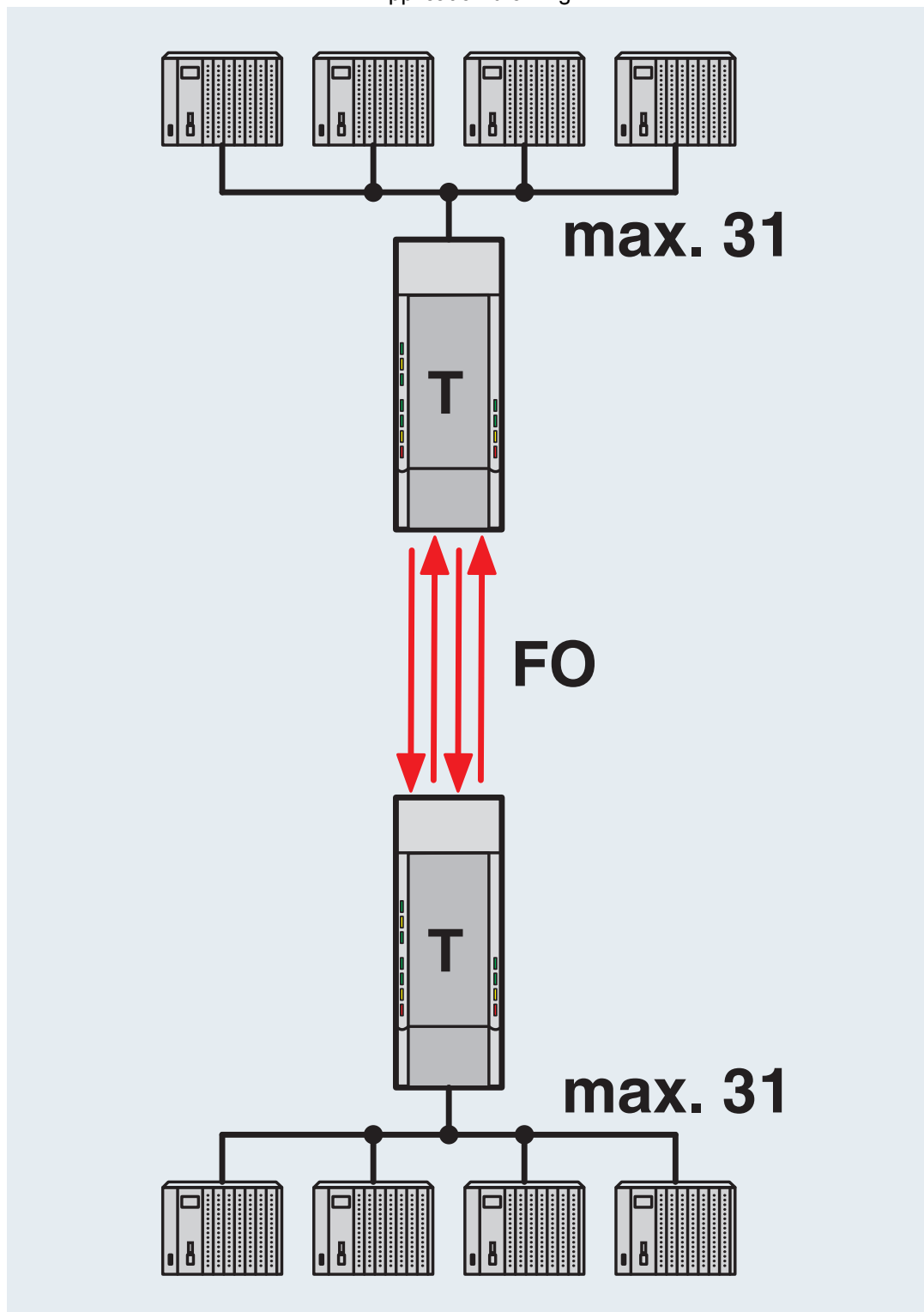
*) only with PSI-MOS.../FO...T

Application drawing



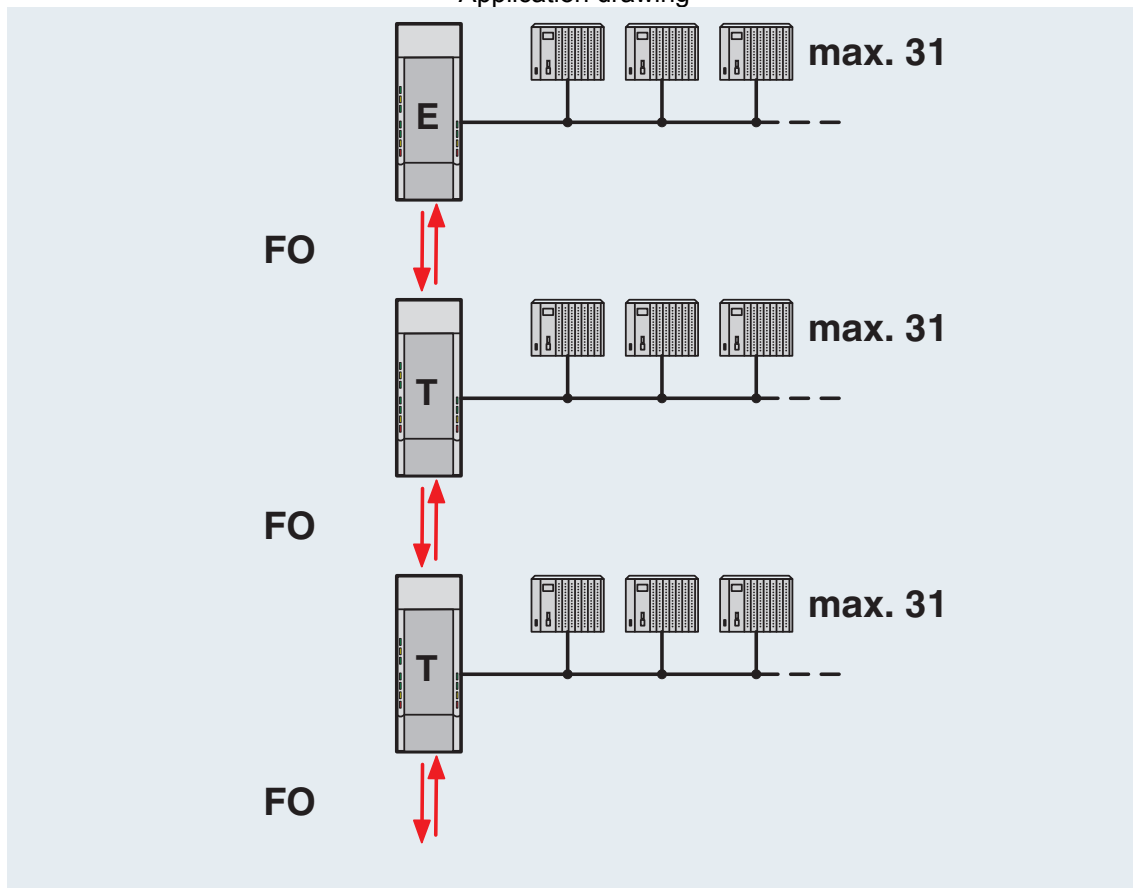
Star structure

Application drawing



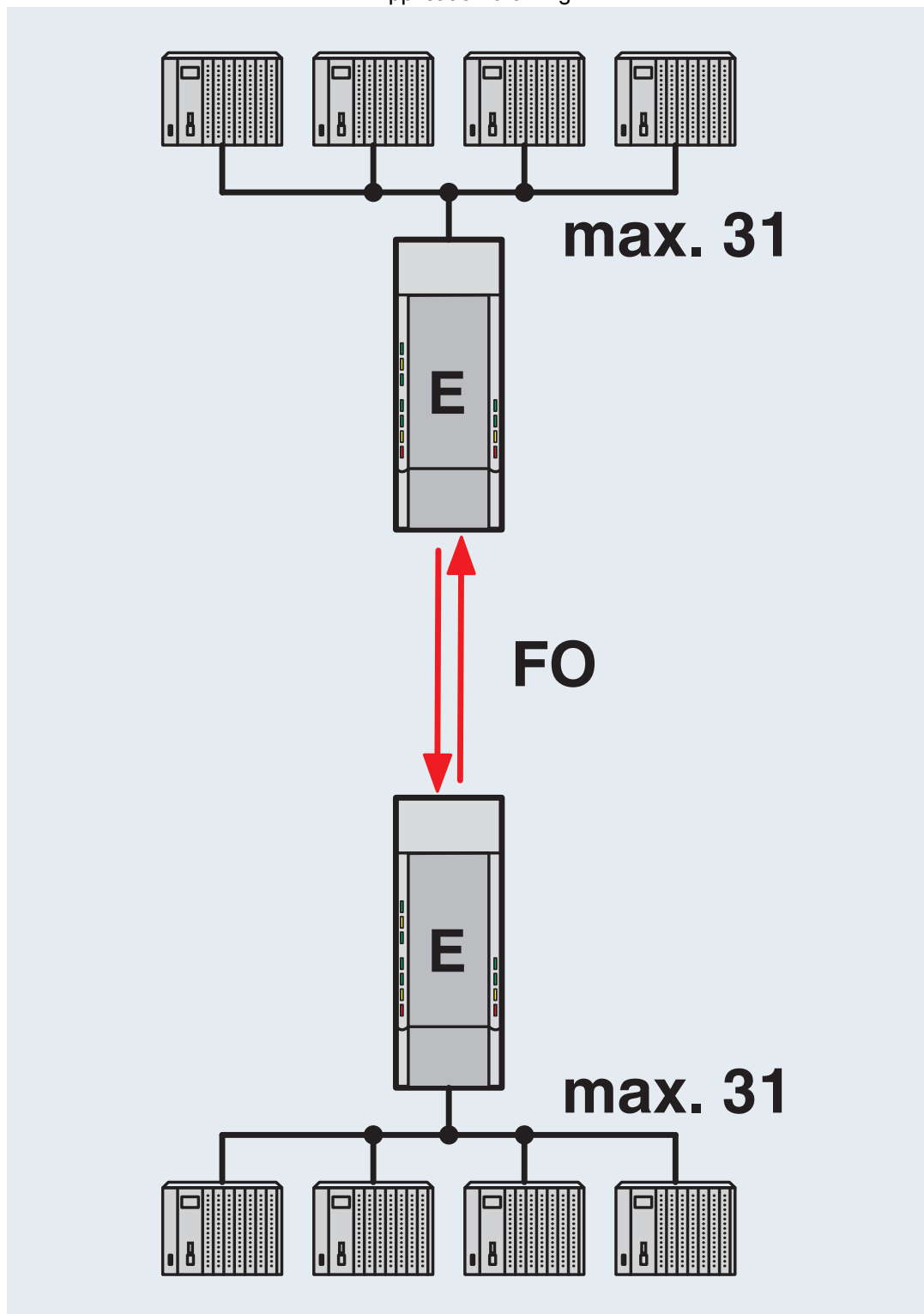
Redundant point-to-point connection

Application drawing



Line structure

Application drawing



Point-to-point connection

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2708326>



EAC

Approval ID: TR TS_D_01871-19



DNV GL

Approval ID: TAA00001KR



KC

Approval ID: MSIP-REI-PCK-2708326

UAE-RoHS

Approval ID: 23-02-63194



cULus Listed

Approval ID: E238705



ATEX

Approval ID: PTB 06 ATEX 2042U



ATEX

Approval ID: PxCIF06ATEX2708261X



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827



IECEx

Approval ID: IECEx ULD 21.0013X



ATEX

Approval ID: UL 21 ATEX 2550X

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cULus Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 19170411 |
| ECLASS-12.0 | 19170411 |
| ECLASS-13.0 | 19170411 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001467 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43201500 |
|-------------|----------|

Environmental product compliance

| | |
|---|---|
| EU RoHS | |
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(c)-I |
| 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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Accessories

PSM-SET-B-FOC/4-HCS - FO connectors

2708481

<https://www.phoenixcontact.com/us/products/2708481>

FO connectors, degree of protection: IP20, number of positions: 4, MM, material: Metal, connection method: Cable connection, cable outlet: straight



PSM-LWL-HCS-RUGGED-200/230 - FO cable

2799885

<https://www.phoenixcontact.com/us/products/2799885>



PCF cable, duplex 200 μm /230 μm , by the meter without male connector, for installation in stationary systems and machines

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PSM-LWL-HCSO-200/230 - FO cable

2799445

<https://www.phoenixcontact.com/us/products/2799445>

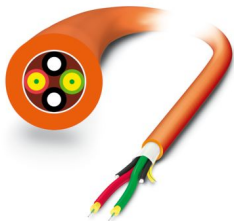


PCF cable, duplex 200/230 μm , by the meter, without connector, for outdoor installation

PSM-LWL-GDM-RUGGED- 50/125 - FO cable

2799322

<https://www.phoenixcontact.com/us/products/2799322>



Fiber glass cable, duplex 50 μm /125 μm , by the meter, without male connector, for installation in stationary systems and machines

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PSM-LWL-GDO- 50/125 - FO cable

2799432

<https://www.phoenixcontact.com/us/products/2799432>



Fiberglass cable, duplex 50/125 μm , by the meter, without connector, for outdoor installation

QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

<https://www.phoenixcontact.com/us/products/2904614>



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

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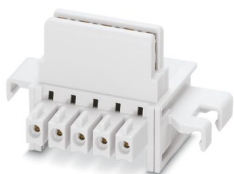
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ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY - DIN rail bus connectors

2713645

<https://www.phoenixcontact.com/us/products/2713645>



DIN rail connector, color: light grey, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

PSM-HCS-KONFTOOL/B-FOC - Assembly tool

2708465

<https://www.phoenixcontact.com/us/products/2708465>



HCS assembly kit for B-FOC(ST) quick mounting connectors, including stripping blade, stripping pliers, aramide yarn scissors, fiber stripper, microscope, fiber cleaving tool for standard HCS and HCS GI fibers, four B-FOC(ST) connectors for standard HCS fiber, and documentation

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PSM-FO-POWERMETER - Measuring instrument

2799539

<https://www.phoenixcontact.com/us/products/2799539>



Fiber optic measuring case, consisting of an optical power meter, F-SMA, B-FOC adapters, reference fibers and operating instructions

SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/us/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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PSM-STRIP-FC/PROFIB - Stripping tool

2744623

<https://www.phoenixcontact.com/us/products/2744623>

Quick stripping tool for PROFIBUS cable, type Fast Connect

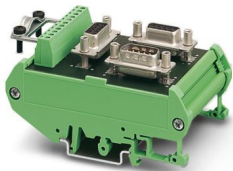


PSM PTK - Connection distributor

2760623

<https://www.phoenixcontact.com/us/products/2760623>

Passive RS-485 T-distributor, fitted with one 9-pin D-SUB pin strip and two 9-pin D-SUB socket strips



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PSM PTK-4 - Connection distributor

2799364

<https://www.phoenixcontact.com/us/products/2799364>

Passive RS-485 T-distributor, fitted with one 9-pin D-SUB pin strip and five 9-pin D-SUB socket strips



PSI-REP-RS485W2 - Repeater

2313096

<https://www.phoenixcontact.com/us/products/2313096>

Modular repeater for electrical isolation and range increase in RS-485 2-wire bus systems up to 500 kbps, 4-way isolation, rail-mountable, supply 24 V DC



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PSM-ME-RS485/RS485-P - Repeater

2744429

<https://www.phoenixcontact.com/us/products/2744429>



Repeater, for potential separation and range increase in RS-485 2-wire bus systems, 3-way isolation, rail-mountable

PSM-CABLE-PROFIB/FC - Bus system cable

2744652

<https://www.phoenixcontact.com/us/products/2744652>



By the meter, Bus system cable, PROFIBUS (12 Mbps), shielded, PVC FR VI/PVC, violet, 2-wire (1x2xAWG22/1), color single wire: red, green, cable length: Free entry (1.0 ... 1000.0 m)

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SUBCON-PLUS M1 - D-SUB bus connector

2761826

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D-SUB connector, 9-pos., male connector, two 35° cable entries, bus system: Modbus, Modbus Plus, BITBUS, ARCNET, MULT/MININET (B&R), SYSTEM 2003 (B&R), P-NET, pin assignment: 1, 2, 3, 5, 6, 8 to two screw connection terminal blocks

SUBCON-PLUS F1 - D-SUB bus connector

2744267

<https://www.phoenixcontact.com/us/products/2744267>



D-SUB connector, 9-pos. female connector, two 35° cable entries, bus system: Modbus, Modbus Plus, BITBUS, ARCNET, MULT/MININET (B&R), SYSTEM 2003 (B&R), P-NET, pin assignment: 1, 2, 3, 5, 6, 8; screw connection terminal blocks

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SUBCON-PLUS M2 - D-SUB bus connector

2761839

<https://www.phoenixcontact.com/us/products/2761839>



D-SUB connector, 9-pos., male connector, two 35° cable entries, bus system: CAN, SUCONET K1, K2 (MOELLER), S-BUS (Saia), J-BUS (Merlin Gerin), pin assignment: 2, 3, 4, 5, 7, 9 to two screw connection terminal blocks

SUBCON-PLUS F2 - D-SUB bus connector

2799490

<https://www.phoenixcontact.com/us/products/2799490>



D-SUB connector, 9-pos. female connector, two 35° cable entries, bus system: CAN, SUCONET K1, K2 (MOELLER), S-BUS (Saia), J-BUS (Merlin Gerin), pin assignment: 2, 3, 4, 5, 7, 9 to two screw connection terminal blocks

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SUBCON-PLUS 9/M - D-SUB bus connector

2744018

<https://www.phoenixcontact.com/us/products/2744018>



D-SUB connector, 9-pos., male connector, two 35° cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block

SUBCON-PLUS 9/F - D-SUB bus connector

2744241

<https://www.phoenixcontact.com/us/products/2744241>



D-SUB connector, 9-pos. female connector, two 35° cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block

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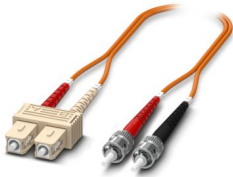
<https://www.phoenixcontact.com/us/products/2708326>

FOC-ST:PA-SC:PA-OM2:D01/1 - FO patch cable

1115574

<https://www.phoenixcontact.com/us/products/1115574>

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m

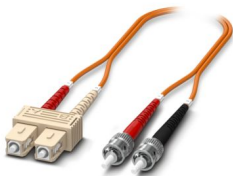


FOC-ST:PA-SC:PA-OM2:D01/2 - FO patch cable

1115573

<https://www.phoenixcontact.com/us/products/1115573>

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m



PSI-MOS-RS485W2/FO 850 T - FO converters

2708326

<https://www.phoenixcontact.com/us/products/2708326>



FOC-ST:PA-ST:PA-OM2:D01/1 - FO patch cable

1115560

<https://www.phoenixcontact.com/us/products/1115560>

Multi-mode OM2 duplex jumper, ST-ST, UPC polishing, length 1 m



FOC-ST:PA-ST:PA-OM2:D01/2 - FO patch cable

1115557

<https://www.phoenixcontact.com/us/products/1115557>

Multi-mode OM2 duplex jumper, ST-ST, UPC polishing, length 2 m



PSI-MOS-RS485W2/FO 850 T - FO converters



2708326

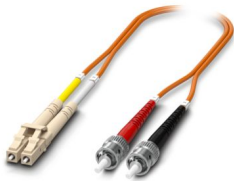
<https://www.phoenixcontact.com/us/products/2708326>

FOC-LC:PA-ST:PA-OM2:D01/1 - Fiber optic cable

1115588

<https://www.phoenixcontact.com/us/products/1115588>

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 1 m

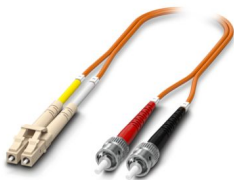


FOC-LC:PA-ST:PA-OM2:D01/2 - Fiber optic cable

1115587

<https://www.phoenixcontact.com/us/products/1115587>

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 2 m



PSI-MOS-RS485W2/FO 850 T - FO converters



2708326

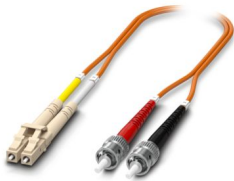
<https://www.phoenixcontact.com/us/products/2708326>

FOC-LC:PA-ST:PA-OM1:D01/1 - FO patch cable

1146499

<https://www.phoenixcontact.com/us/products/1146499>

Multi-mode OM1 duplex jumper, LC-ST, UPC polishing, length 1 m

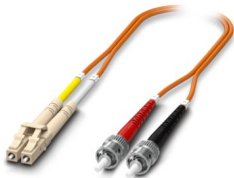


FOC-LC:PA-ST:PA-OM1:D01/2 - FO patch cable

1146508

<https://www.phoenixcontact.com/us/products/1146508>

Multi-mode OM1 duplex jumper, LC-ST, UPC polishing, length 2 m



PSI-MOS-RS485W2/FO 850 T - FO converters

2708326

<https://www.phoenixcontact.com/us/products/2708326>



FOC-ST:PA-ST:PA-OM1:D01/1 - FO patch cable

1146501

<https://www.phoenixcontact.com/us/products/1146501>

Multi-mode OM1 duplex jumper, ST-ST, UPC polishing, length 1 m



FOC-ST:PA-ST:PA-OM1:D01/2 - FO patch cable

1146509

<https://www.phoenixcontact.com/us/products/1146509>

Multi-mode OM1 duplex jumper, ST-ST, UPC polishing, length 2 m



PSI-MOS-RS485W2/FO 850 T - FO converters

2708326

<https://www.phoenixcontact.com/us/products/2708326>



PSI-TERMINATOR-PB-TBUS - Termination resistor

2702636

<https://www.phoenixcontact.com/us/products/2702636>



Active termination resistor for PROFIBUS and RS-485 bus systems, redundant power supply, routing of the supply voltage via DIN rail connector, electrical isolation, switchable termination, integrated programming interface

PSI-MOS-RS485W2/FO 850 E - FO converters

2708339

<https://www.phoenixcontact.com/us/products/2708339>



FO converter with integrated optical diagnostics, alarm contact, for RS-485 2-wire bus systems (SUCONET K, Modbus ...) up to 500 kbps, NRZ coding, terminal device with one FO interface (BFOC), 850 nm, for PCF/fiberglass cable (multimode)

PSI-MOS-RS485W2/FO 850 T - FO converters



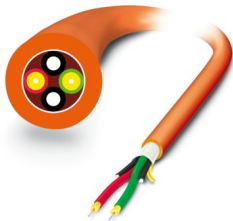
2708326

<https://www.phoenixcontact.com/us/products/2708326>

FOC-HCS-RUGGED-1014/... - FO patch cable

1402191

<https://www.phoenixcontact.com/us/products/1402191>



rugged PCF installation cable for inner areas with highly tear-proof aramid strain-relief elements. Individual elements made from highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

FOC-GDM-RUGGED-1016/IP20/... - FO patch cable

2901558

<https://www.phoenixcontact.com/us/products/2901558>



Robust GOF installation cable for assembly (IP20 heads only) for installation in stationary systems and machines, aramid strain-relief elements, with individual elements made from FRNC material, halogen-free, ozone and UV resistant, with a polyurethane (PUR) outer sheath

PSI-MOS-RS485W2/FO 850 T - FO converters



2708326

<https://www.phoenixcontact.com/us/products/2708326>

FOC-GDO-1017/IP20/... - FO patch cable

2901559

<https://www.phoenixcontact.com/us/products/2901559>



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.

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