

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



FO converter with integrated optical diagnostics, alarm contact, for PROFIBUS up to 12 Mbps, terminal device with one FO interface (FSMA), 660 nm, for polymer/PCF fiber cable

Product description

The **PSI-MOS-PROFIB/FO...** devices convert copper-based PROFIBUS interfaces to fiber optics. 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-PROFIB/FO... E** terminal devices convert a PROFIBUS interface for a **FO cable**. They are ideal for point-to-point connections.

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
- Redundant power supply
- High-quality electrical isolation between all interfaces (PROFIBUS // fiber optic ports // power supply // DIN rail connector)
- Approved for use in zone 2
- Integrated optical diagnostics for continuous monitoring of FO paths
- Intrinsically safe fiber optic interface (Ex op is) for direct connection to devices in zone 1
- Floating switch contact for advance warning of critical FO paths
- Suitable for all data rates up to 12 Mbps
- Bit retiming for any cascading depth
- Shipbuilding approval in accordance with DNV GL

Commercial data

Item number	2708290
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN06
Product key	DNC211
GTIN	4017918973995
Weight per piece (including packing)	246.8 g
Weight per piece (excluding packing)	241.9 g
Customs tariff number	85176200

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Country of origin	DE
-------------------	----

Technical data

Notes

Note on application

Note on application	Only for industrial use
---------------------	-------------------------

Utilization restriction

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

Product properties

Product type	Media converter
Product family	PSI-MOS
MTTF	243 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	178 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	110 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
MTBF	324 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	70 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	2.4 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	100 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
-----------------------------	--------

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 (DIP 7 = OFF, standard operation) 11 bit (DIP 7 = ON, redundancy operation)
Signal	PROFIBUS

Data: optical FO

No. of channels	1
Transmit capacity, minimum	-3 dBm (980/1000 µm) -15.4 dBm (200/230 µm)
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
Wavelength	660 nm
Minimum receiver sensitivity	-30 dBm
Maximum receiver sensitivity	-3 dBm (980/1000 µm)
Transmission medium	Polymer fiber PCF fiber

Data: PROFIBUS acc. to IEC 61158, RS-485 2-wire, half duplex, automatic control

Serial transmission speed	≤ 12 Mbps
Connection method	D-SUB-9 female connector
Transmission length	≤ 1200 m (depending on the data rate, with shielded, twisted pair data cable)
Single conductor/terminal point, rigid	0.2 mm² ... 2.5 mm²
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 Bit, NRZ)
Data direction switching	Automatic control
Output nominal voltage	5 V ±0.25 (50 mA)

Dimensions

Width	35 mm
Height	99 mm
Depth	106 mm

Material specifications

Color (Housing)	green (RAL 6021)
Material (Housing)	PA 6.6-FR

Cable/line

FO cable

Fiber types	980/1000 µm
	200/230 µm
	Polymer fiber
	PCF fiber

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Shock (operation): 15g, 11 ms period, half-sine shock pulse
Free fall in accordance with IEC 60068-2-32	Free fall: 1 m

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	Ex II 3 G Ex nA nC IIC T4 Gc X
Note	Please follow the special installation instructions in the documentation!

ATEX, FO interface

Identification	Ex II (2) G [Ex op is Gb] IIC
	Ex II (2) D [Ex op is Db] IIIC

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Certificate	PTB 06 ATEX 2042 U
Note	Please follow the special installation instructions in the documentation!

UL, USA/Canada

Identification	Class I, Zone 2, AEx nc IIC T5
	Class I, Zone 2, Ex nC nL IIC T5 X
	Class I, Div. 2, Groups A, B, C, D

PROFIBUS interoperability

Note	Tested by independent PNO test laboratory (PN059-485-01)
------	--

ABB certification

Identification	Industrial ^{IT} enabled
Note	This certification is a trademark of ABB.

Corrosive gas test

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

Shipbuilding

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

Shipbuilding 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

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

Noise emission

Standards/regulations	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

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	$\pm 2 \text{ kV}$
Signal	$\pm 2 \text{ kV}$
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Input	$\pm 0.5 \text{ kV}$
Signal	$\pm 1 \text{ kV}$
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

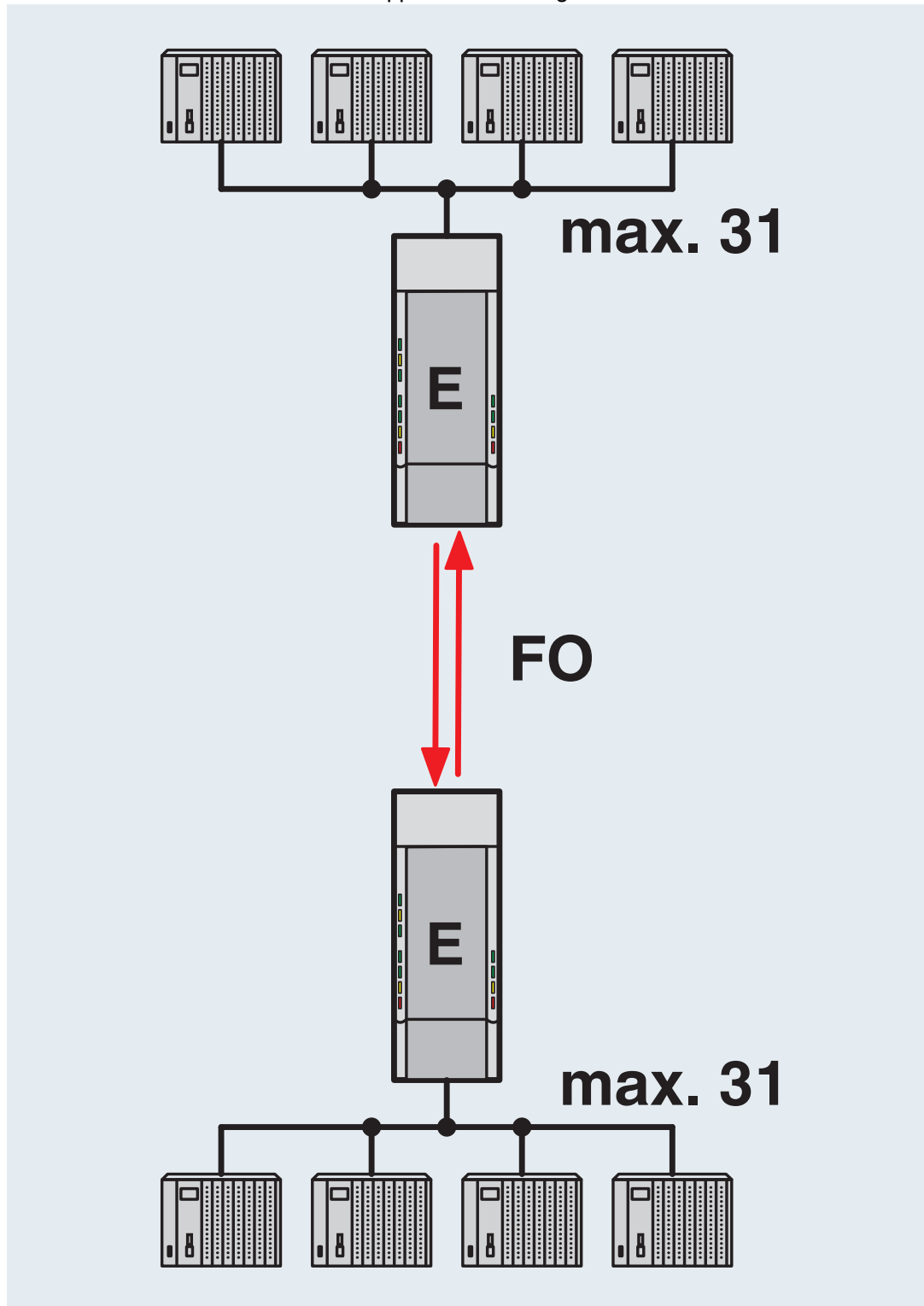
Free from substances that could impair the application of coating	VDMA 24364:2018-05
Air clearances and creepage distances	
Standards/regulations	DIN EN 60664-1
	VDE 0110-1
	DIN EN 50178
	EN 60950

Mounting

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

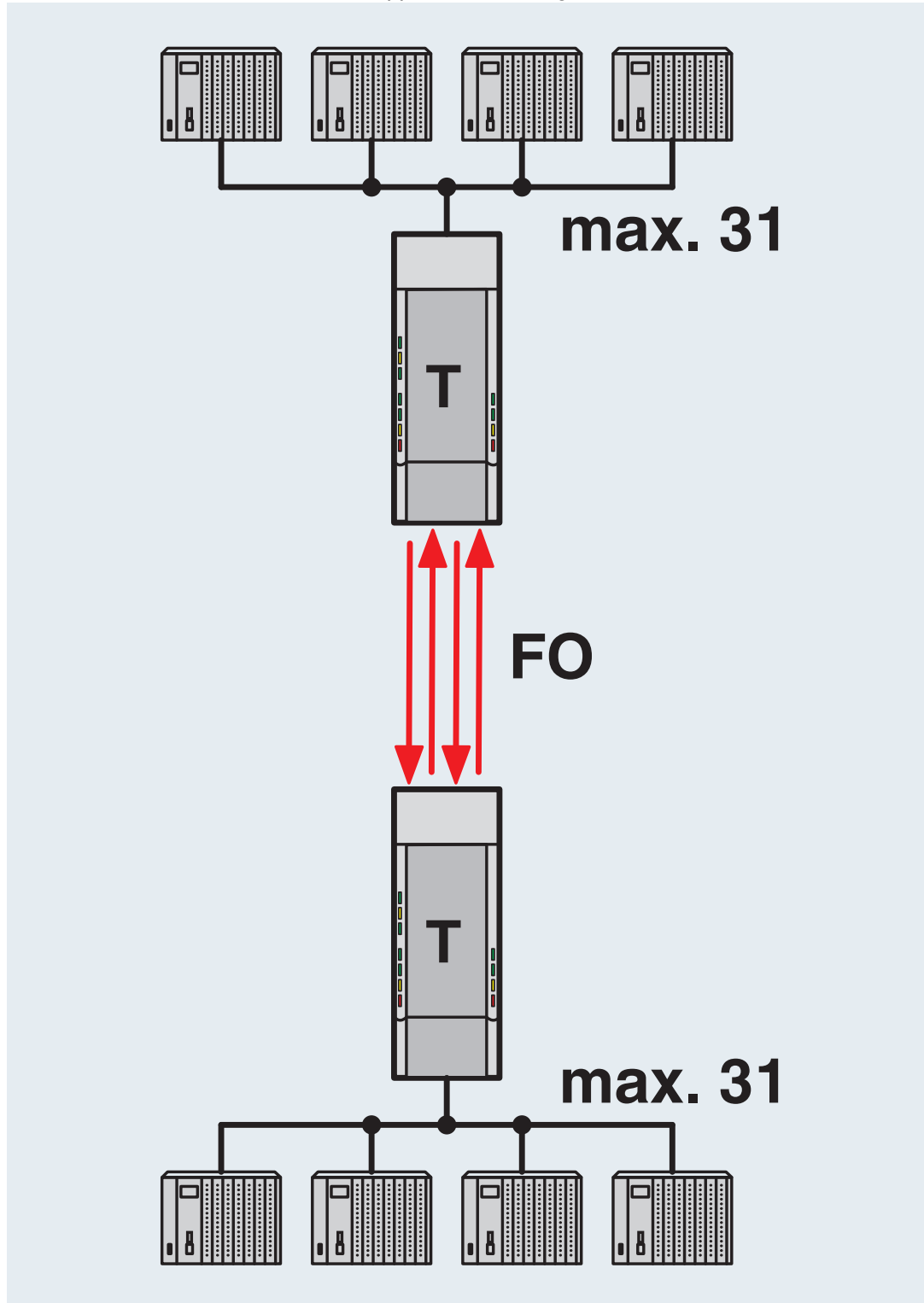
Drawings

Application drawing



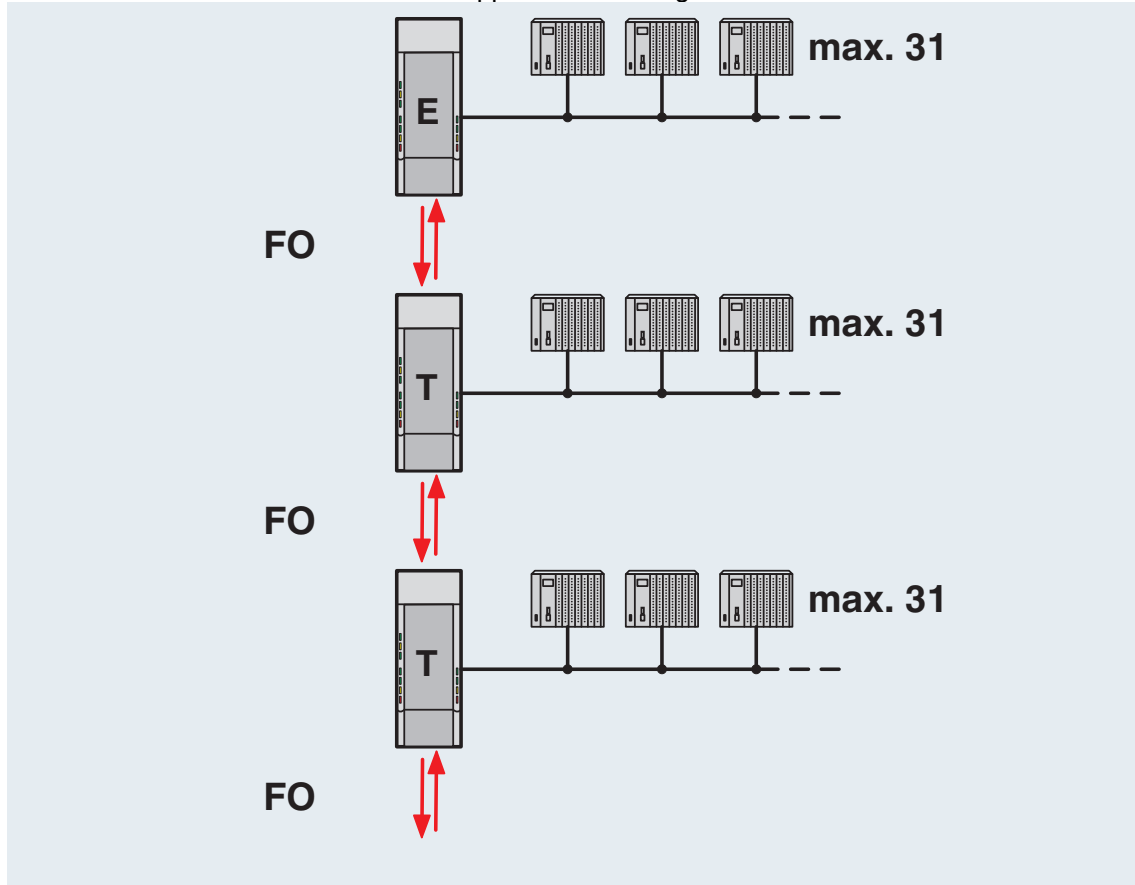
Point-to-point connection

Application drawing



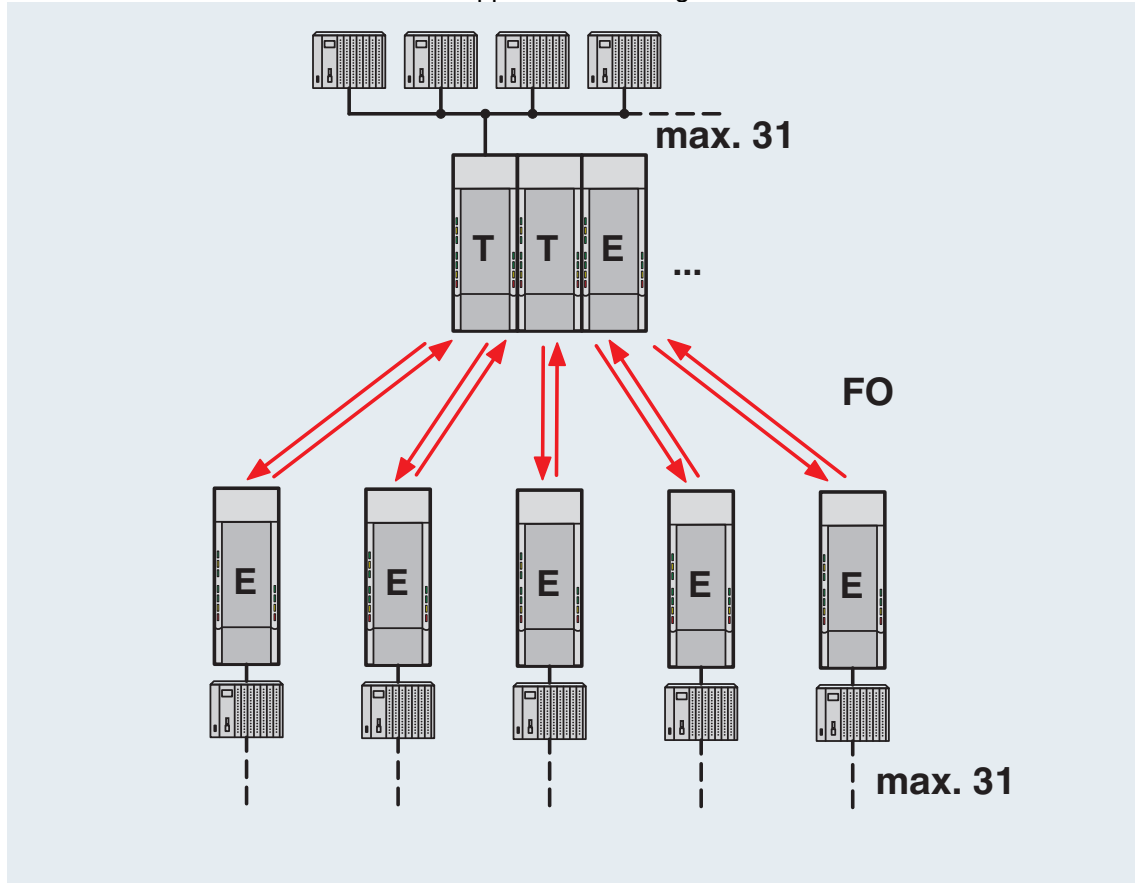
Redundant point-to-point connection

Application drawing

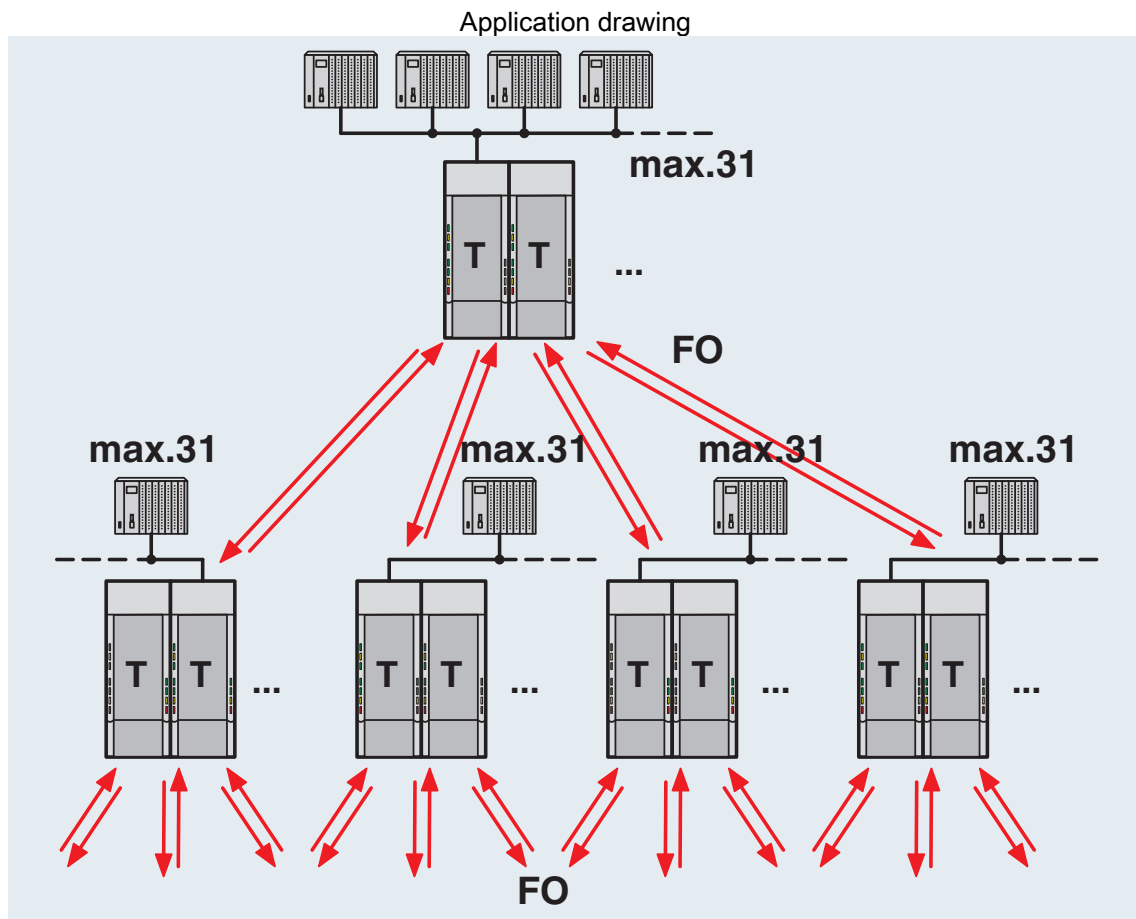


Line structure

Application drawing

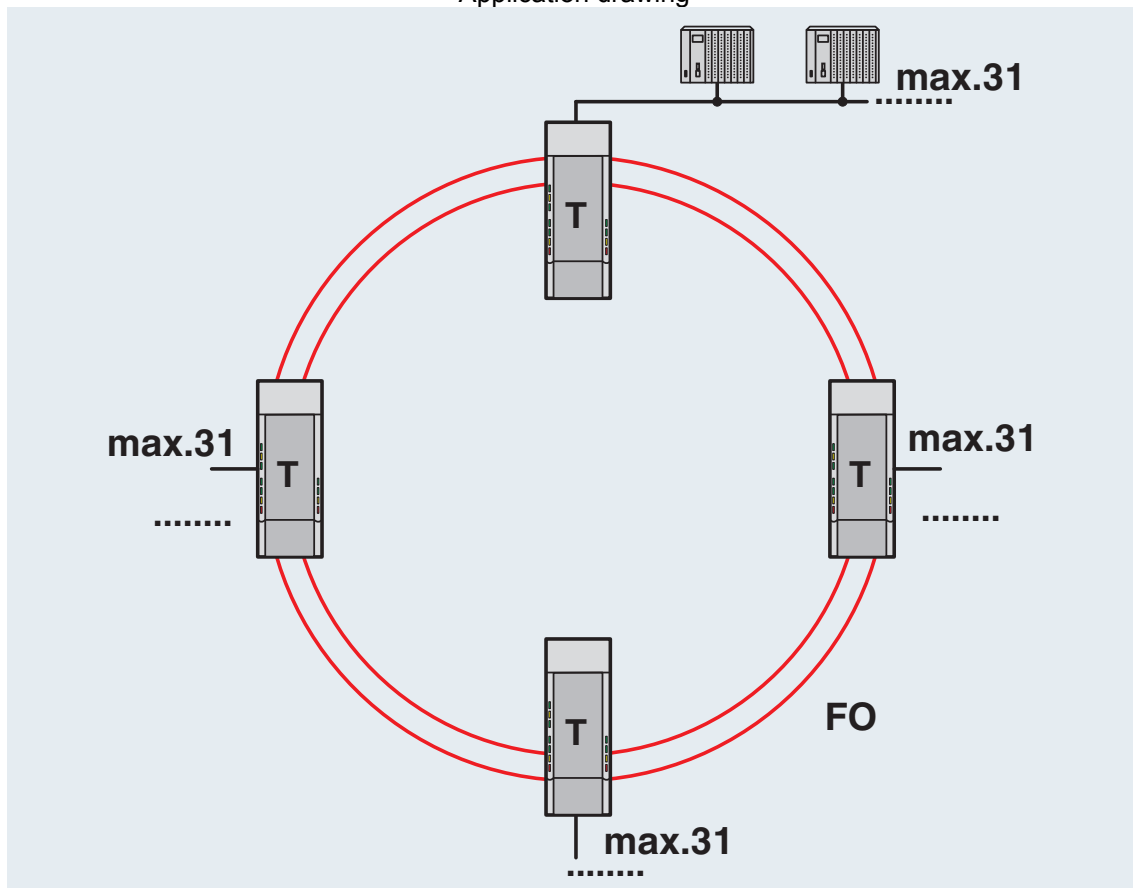


Star structure



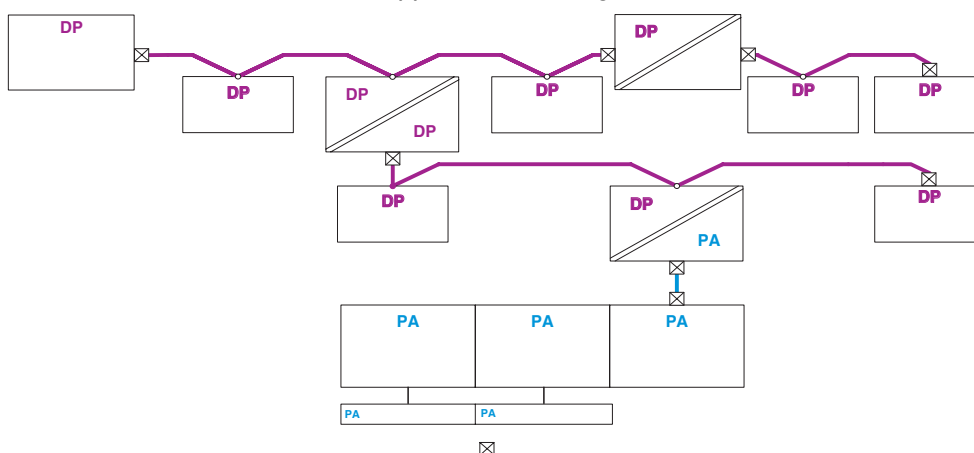
Tree structure

Application drawing



Redundant FO ring

Application drawing



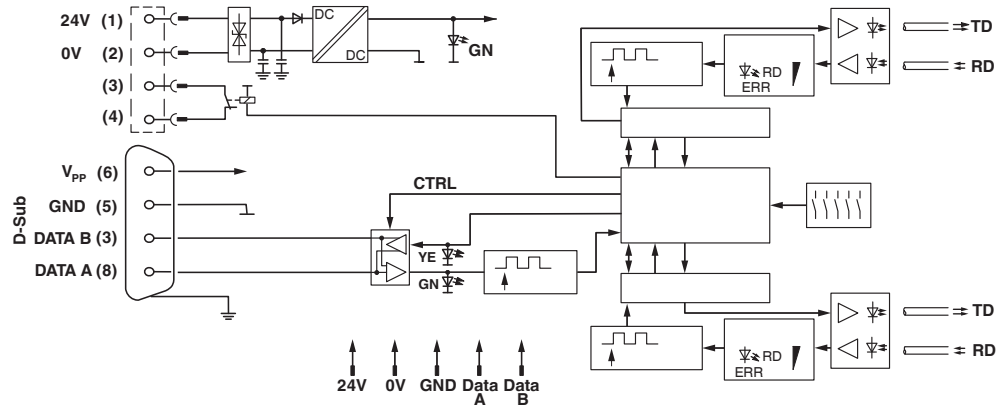
PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Block diagram



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

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2708290>



DNV GL

Approval ID: TAA00001KR



cULus Recognized

Approval ID: E238705



ATEX

Approval ID: PxCIF06ATEX2708261X



cUL Listed

Approval ID: E199827



UL Listed

Approval ID: E199827

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Classifications

ECLASS

ECLASS-13.0	19170411
ECLASS-15.0	19170411

ETIM

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

UNSPSC

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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 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.)	Lead(CAS: 7439-92-1)
SCIP	8a9a1cf4-ab8f-4cfa-98c8-809798590fcd

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

Accessories

PSM-SET-FSMA/4-KT - FO connectors

2799720

<https://www.phoenixcontact.com/us/products/2799720>

FO connectors, degree of protection: IP20, number of positions: 2, MM, material: Metal, cable outlet: straight



PSM-SET-FSMA/4-HCS - FO connectors

2799487

<https://www.phoenixcontact.com/us/products/2799487>

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



PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

FL FOC PN-B-980/1000 - FO cable

2313397

<https://www.phoenixcontact.com/us/products/2313397>



PROFINET polymer fiber cable, duplex 980 μm /1000 μm , heavy-weight design, for installation in stationary systems and machines, by the meter, without male connector

PSM-LWL-RUGGED-980/1000 - FO cable

2744322

<https://www.phoenixcontact.com/us/products/2744322>



Polymer fiber cable, duplex 980 μm /1000 μm , heavy-weight version for installation in stationary systems and machines, by the meter without male connector

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

FL FOC PN-C-FLEX-980/1000 - FO cable

2313407

<https://www.phoenixcontact.com/us/products/2313407>

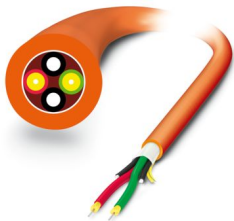


PROFINET polymer fiber cable, duplex, 980/1000 μm , heavy-weight highly flexible design, for flexible cable conduit applications, by the meter, without connector

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

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

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

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

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

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

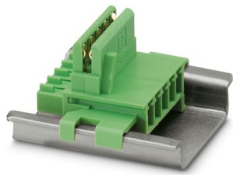
<https://www.phoenixcontact.com/us/products/2708290>

ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - DIN rail bus connector

2709561

<https://www.phoenixcontact.com/us/products/2709561>

DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

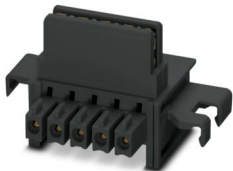


ME 17,5 TBUS 1,5/PP000-3,81 BK - DIN rail bus connector

2890014

<https://www.phoenixcontact.com/us/products/2890014>

DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 2-pos.



PSI-MOS-PROFIB/FO 660 E - FO converters



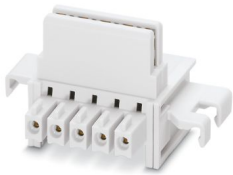
2708290

<https://www.phoenixcontact.com/us/products/2708290>

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

2713645

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



DIN rail bus connector, color: light gray, 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 method: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

PSM-POF-KONFTOOL - Assembly tool

2744131

<https://www.phoenixcontact.com/us/products/2744131>



Polymer fiber DIY case, consisting of: Stripping knife, stripping pliers, polishing wheels for F-SMA and SC-RJ quick mounting connectors, polishing pad and emery paper

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

PSM-HCS-KONFTOOL - Assembly tool

2799526

<https://www.phoenixcontact.com/us/products/2799526>



PCF assembly kit for F-SMA quick mounting connectors, including stripping blade, stripping pliers, aramide yarn scissors, fiber stripper, microscope, fiber cleaving tool for standard HCS fibers, four F-SMA connectors for standard PCF fibers, and documentation

PSM-SET-FSMA-POLISH - Assembly tool

2799348

<https://www.phoenixcontact.com/us/products/2799348>



Polymer fiber polishing set, for F-SMA quick mounting connectors

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

PSM-FO-POWERMETER - Measuring device

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

PSM-SET-FSMA-LINK/2 - FO coupling

2799416

<https://www.phoenixcontact.com/us/products/2799416>



Coupling; set consisting of 2 couplings for connecting F-SMA plugs

PSI-MOS-PROFIB/FO 660 E - FO converters



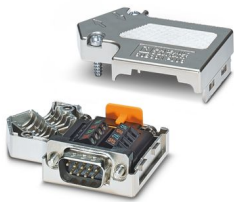
2708290

<https://www.phoenixcontact.com/us/products/2708290>

SUBCON-PLUS-PROFIB/SC2 - D-SUB bus connector

2708232

<https://www.phoenixcontact.com/us/products/2708232>



D-SUB connector, 9-pos., pin, 35° cable outlet, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

SUBCON-PLUS-PROFIB/PG/SC2 - D-SUB bus connector

2708245

<https://www.phoenixcontact.com/us/products/2708245>



D-SUB connector, 9-pos., pin, 35° cable outlet, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

SUBCON-PLUS-PROFIB/AX/SC - D-SUB bus connector

2744380

<https://www.phoenixcontact.com/us/products/2744380>



D-SUB connector, 9-pos., male connector, axial version with two cable entries, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

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

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

PSM-STRIP-FC/PROFIB - Stripping tool

2744623

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

Quick stripping tool for PROFIBUS cable, type Fast Connect

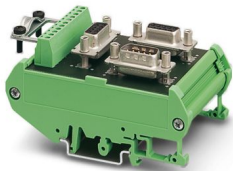


PSM PTK - Connection distributor

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



PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

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-PROFIBUS/12MB - Repeater

2708863

<https://www.phoenixcontact.com/us/products/2708863>

Modular repeater for electrical isolation and range increase for PROFIBUS up to 12 Mbps, 4-way isolation, rail-mountable, supply 24 V DC



PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

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)

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

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

SUBCON-PLUS-PROFIB/90/PG/SC - D-SUB bus connector

2313708

<https://www.phoenixcontact.com/us/products/2313708>



D-SUB connector, 9-pos., pin, 90° cable outlet, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

SUBCON-PLUS-PROFIB/90/PG/IDC - D-SUB bus connector

2313685

<https://www.phoenixcontact.com/us/products/2313685>



D-SUB connector, 9-pos., pin, 90° cable outlet, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection

SUBCON-PLUS-PROFIB/AX/M12 - D-SUB bus connector

2902321

<https://www.phoenixcontact.com/us/products/2902321>



D-SUB connector, 9-pos., pin, assignment: 3, 5, 6, 8; two M12 cable entries (B-coded), axial. Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.

PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

SUBCON-PLUS-PROFIB/90X/M12 - D-SUB bus connector

2902729

<https://www.phoenixcontact.com/us/products/2902729>

D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 90° cable entries M12 (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator. Long version; S7-compatible.



SUBCON-PLUS-PROFIB/90/M12 - D-SUB bus connector

2902318

<https://www.phoenixcontact.com/us/products/2902318>

D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 90° M12 cable glands (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.



PSI-MOS-PROFIB/FO 660 E - FO converters



2708290

<https://www.phoenixcontact.com/us/products/2708290>

SUBCON-PLUS-PROFIB/35/M12 - D-SUB bus connector

2902320

<https://www.phoenixcontact.com/us/products/2902320>



D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 35° cable entries M12 (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.

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.

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com