

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

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FO converter with integrated optical diagnostics, alarm contact, for PROFIBUS up to 12 Mbps, terminal device with one FO interface (BFOC), 850 nm, for PCF/fiberglass cable (multimode)

### 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

- ✓ Connections can be plugged in using a COMBICON screw terminal block
- ✓ Can be combined with the PSI copper repeater in a modular way using DIN rail connectors
- ✓ Supply voltage and data signals routed through via DIN rail connectors
- ✓ Automatic data rate detection or fixed data rate setting via DIP switches
- ✓ High-quality electrical isolation between all interfaces (PROFIBUS // 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
- ✓ Integrated optical diagnostics for continuous monitoring of fiber optic paths
- ✓ Intrinsically safe fiber optic interface (Ex op is) for direct connection to devices in zone 1
- ✓ Floating switch contact for leading alarm generation in relation to critical fiber optic paths
- ✓ Suitable for all data rates up to 12 Mbps
- ✓ Bit retiming for any cascading depth
- ✓ Shipbuilding approval in accordance with DNV GL



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 973971 |
| GTIN                                 | 4017918973971   |
| Weight per Piece (excluding packing) | 250.000 g   |
| Custom tariff number                 | 85176200  |
| Country of origin                    | Germany   |

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## Technical data

### Note

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

### Dimensions

|        |        |
|--------|--------|
| Width  | 35 mm  |
| Height | 99 mm  |
| Depth  | 106 mm |

### Ambient conditions

|   |  |
|---|--|
| Ambient temperature (operation)         | -20 °C ... 60 °C   |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C   |
| Permissible humidity (operation)        | 30 % ... 95 % (non-condensing)   |
| Altitude                                | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| Degree of protection                    | IP20   |
| Noise immunity                          | EN 61000-6-2:2005  |

### General

|  |   |
|--|---|
| Bit delay                                | ≤ 1 bit   |
| Bit distortion, input                    | ± 35 % (permitted)  |
| Bit distortion, output                   | < 6.25 %  |
| 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 2014/30/EU   |
| Noise emission                           | EN 55011  |
| Net weight                               | 250 g   |
| Housing material                         | PA 6.6-FR   |
| Color                                    | green   |
| MTBF                                     | 252 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))    |
|  | 42 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| MTTF                                     | 247 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                    |
|  | 200 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)                                 |
|  | 130 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)                                   |

### Power supply

|                             |                                       |
|-----------------------------|---------------------------------------|
| Nominal supply voltage      | 24 V DC (With UL approval)            |
| Supply voltage range        | 18 V DC ... 30 V DC                   |
| Max. current consumption    | 130 mA                                |
| Typical current consumption | 120 mA (24 V DC)                      |
| Connection method           | COMBICON plug-in screw terminal block |

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## Technical data

### Interfaces

|                                       |   |
|---------------------------------------|---|
| Interface 1                           | PROFIBUS acc. to IEC 61158, RS-485 2-wire, half duplex, automatic control     |
| Interface                             | PROFIBUS  |
| Operating mode                        | Semi-duplex   |
| Connection method                     | D-SUB-9 female connector  |
| File format/coding                    | UART (11 Bit, NRZ)  |
| Data direction switching              | Automatic control   |
| Transmission medium                   | Copper  |
| Transmission length                   | ≤ 1200 m (depending on the data rate, with shielded, twisted pair data cable) |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>   |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup>   |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup>   |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup>   |
| Conductor cross section AWG min.      | 24  |
| Conductor cross section AWG max.      | 14  |
| Serial transmission speed             | ≤ 12 Mbps   |

### Optical interface FO

|   |   |
|---|---|
| No. of channels                               | 1   |
| Transmit capacity, minimum                    | -4.2 dBm (200/230 μm)   |
|   | -17.8 dBm (50/125 μm)   |
|   | -14.6 dBm (62,5/125 μm)   |
| Minimum receiver sensitivity                  | -30 dBm (50/125 μm)   |
| Overrange receiver                            | -3 dBm (200/230 μm)   |
| Wavelength                                    | 850 nm  |
| Transmission length incl. 3 dB system reserve | 2600 m (with F-G 50/125 2.5 dB/km)                              |
|   | 3300 m (with F-G 62,5/125 3.0 dB/km)                            |
|   | 800 m (With F-K 200/230 10 dB/km with quick mounting connector) |
| Transmission medium                           | PCF fiber   |
|   | Multi-mode fiberglass   |
| Transmission protocol                         | Protocol-transparent to the RS-485 interface                    |
| Connection method                             | B-FOC (ST <sup>®</sup> )  |

### Digital outputs

|                             |              |
|-----------------------------|--------------|
| Output name                 | Relay output |
| Output description          | Alarm output |
| Number of outputs           | 1            |
| Maximum switching voltage   | 60 V DC      |
|                             | 42 V AC      |
| Limiting continuous current | 0.46 A       |

### Conformance/approvals

# FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

## Technical data

### Conformance/approvals

|                 |   |
|-----------------|---|
| Designation     | CE  |
| Identification  | CE-compliant  |
| Designation     | EAC   |
| Identification  | EAC   |
| Designation     | ATEX  |
| Identification  | # II 3 G Ex nA nC IIC T4 Gc X   |
| Additional text | Please follow the special installation instructions in the documentation!               |
| Designation     | ATEX  |
| Identification  | # II (2) G [Ex op is Gb] IIC  |
|                 | # II (2) D [Ex op is Db] IIIC   |
| Certificate     | PTB 06 ATEX 2042 U  |
| Additional text | Please follow the special installation instructions in the documentation!               |
| Designation     | 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  |
| Designation     | PTB   |
|                 | PROFIBUS approval   |
| Additional text | PROFIBUS-Center Netherlands   |
| Designation     | Corrosive gas test  |
| Identification  | ISA-S71.04-1985 G3 Harsh Group A  |
| Designation     | Shipbuilding  |
| Identification  | DNV GL  |
| Temperature     | B   |
| Humidity        | A   |
| Vibration       | A   |
| EMC             | B   |
| Enclosure       | Required protection according to the Rules shall be provided upon installation on board |

### Standards and Regulations

|   |  |
|---|--|
| Electromagnetic compatibility                                     | Conformance with EMC Directive 2014/30/EU                      |
| Type of test  | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6   |
| Test result   | 5g, 10...150 Hz, 2.5 h, in XYZ direction                       |
| Type of test  | Shock in acc. with EN 60068-2-27/IEC 60068-2-27                |
| Test result   | 15g, 11 ms period, half-sine shock pulse                       |
| Noise emission  | EN 55011   |
| Noise immunity  | EN 61000-6-2:2005  |
| Free from substances that could impair the application of coating | according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard |
| Connection in acc. with standard                                  | CUL  |
| Standards/regulations   | EN 61000-4-2   |

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### Technical data

#### Standards and Regulations

|                       |   |
|-----------------------|---|
| Contact discharge     | ± 6 kV  |
| Standards/regulations | EN 61000-4-3                                      |
|                       | EN 61000-4-4                                      |
| Comments              | Criterion B                                       |
| Standards/regulations | EN 61000-4-5                                      |
| Signal                | ± 1 kV  |
| Standards/regulations | EN 55011  |
|                       | EN 61000-4-6                                      |
| Shock                 | 15g in all directions in acc. with IEC 60068-2-27 |
| Vibration (operation) | in acc. with IEC 60068-2-6: 5g, 150 Hz            |

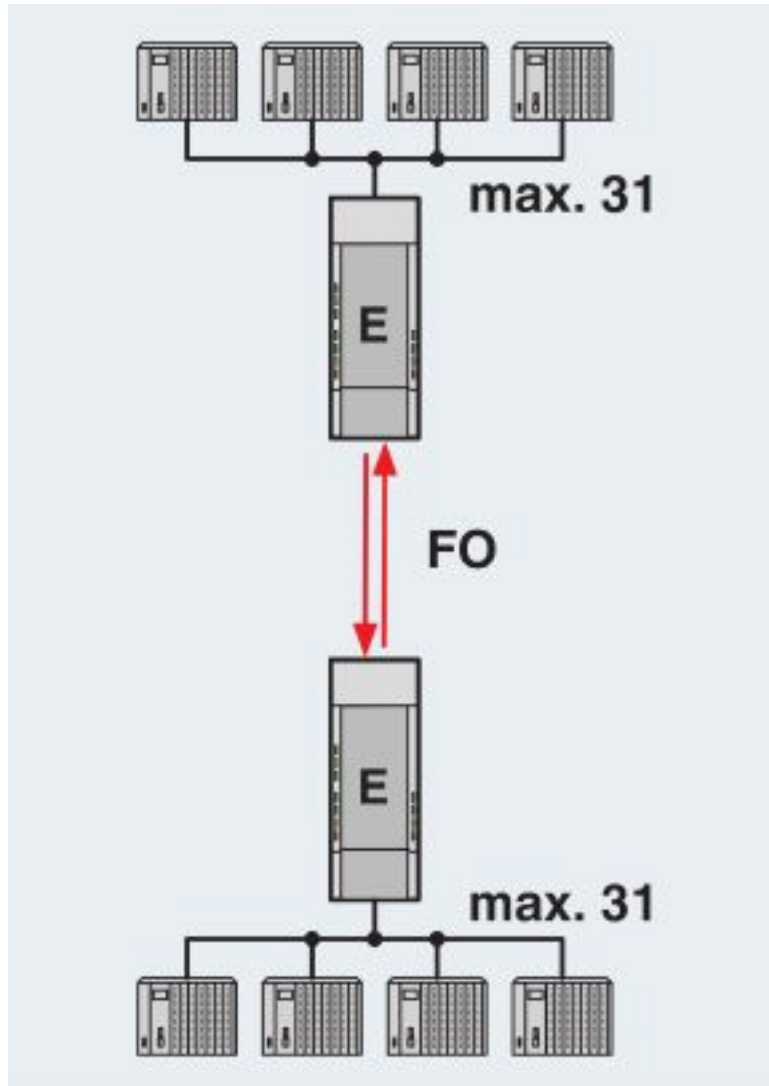
#### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

# FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

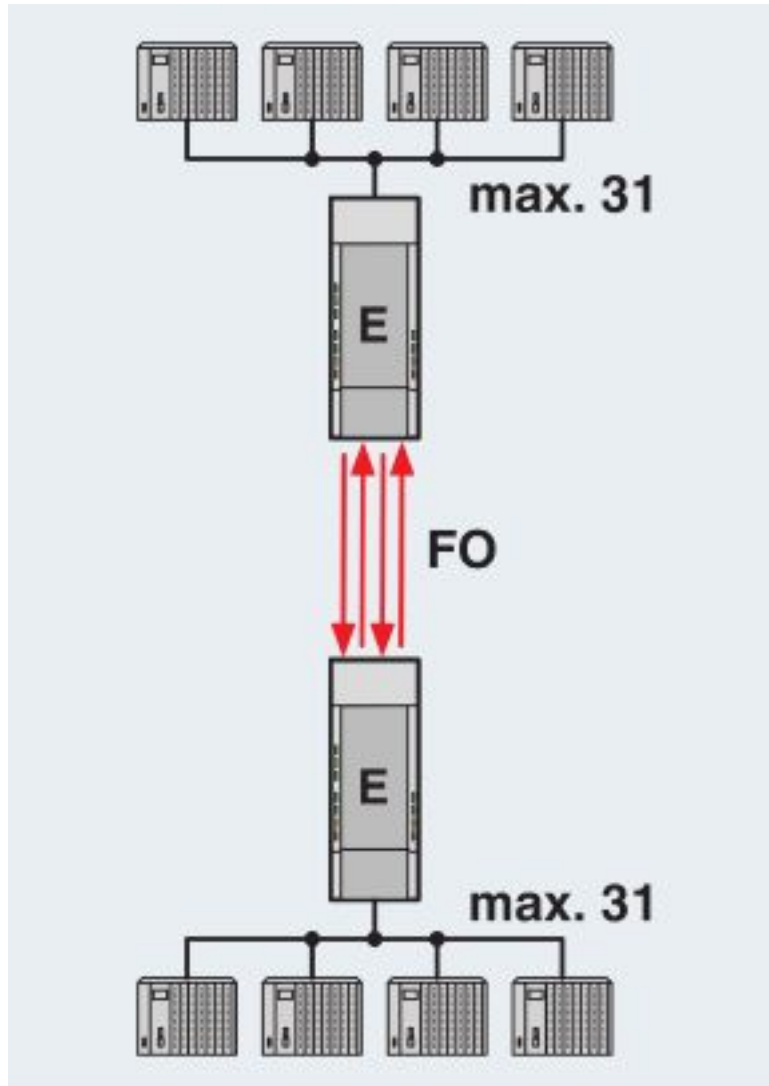
Application drawing



Point-to-point connection

# FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

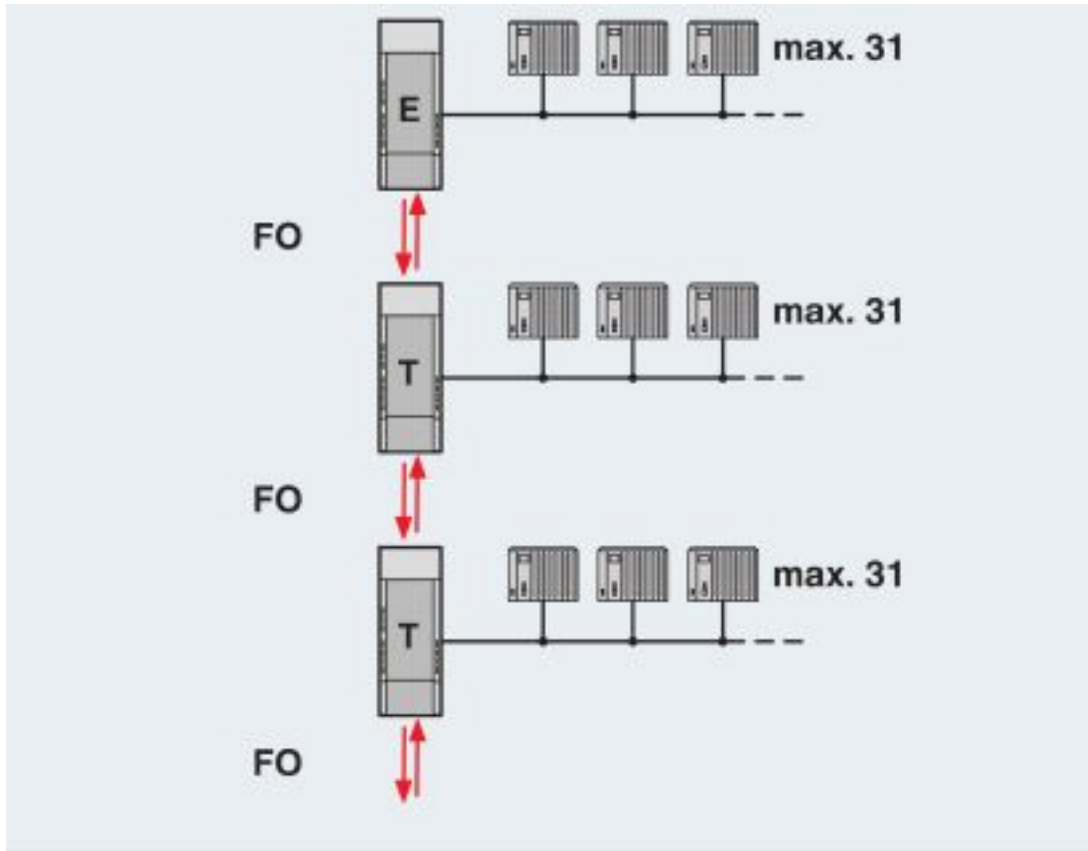
Application drawing



Redundant point-to-point connection

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Application drawing

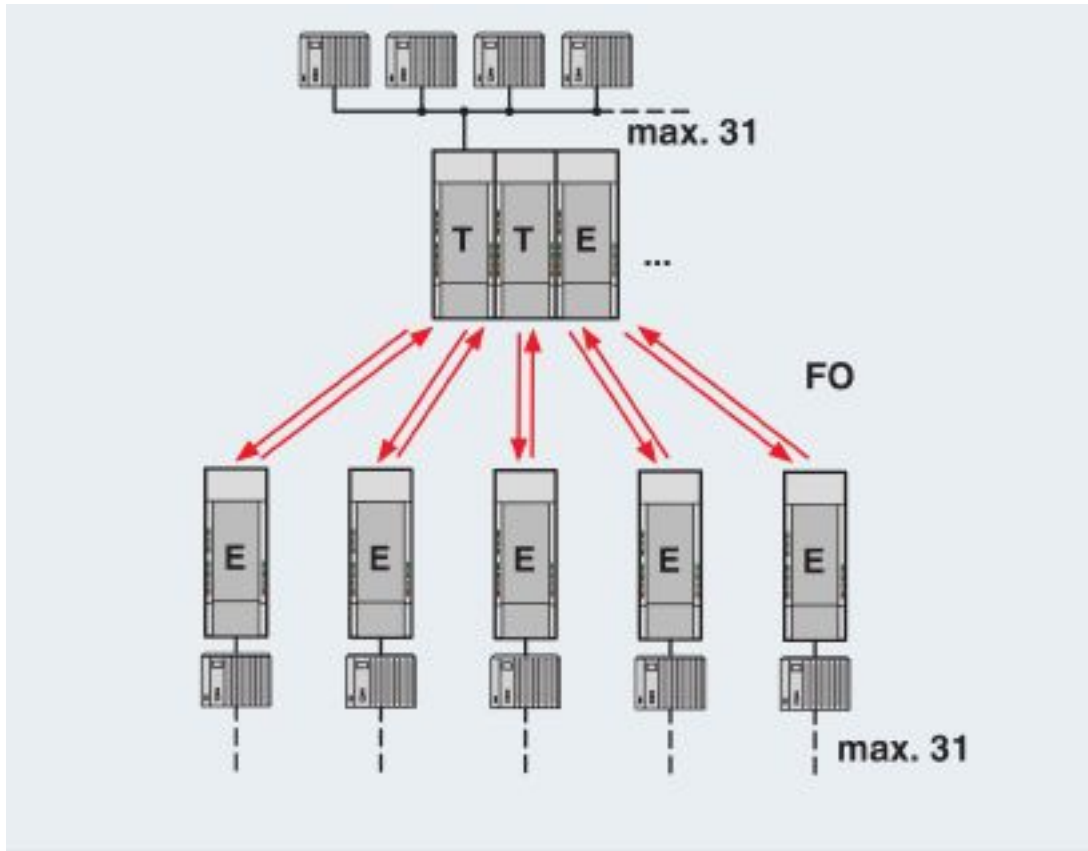


Line structure



# FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

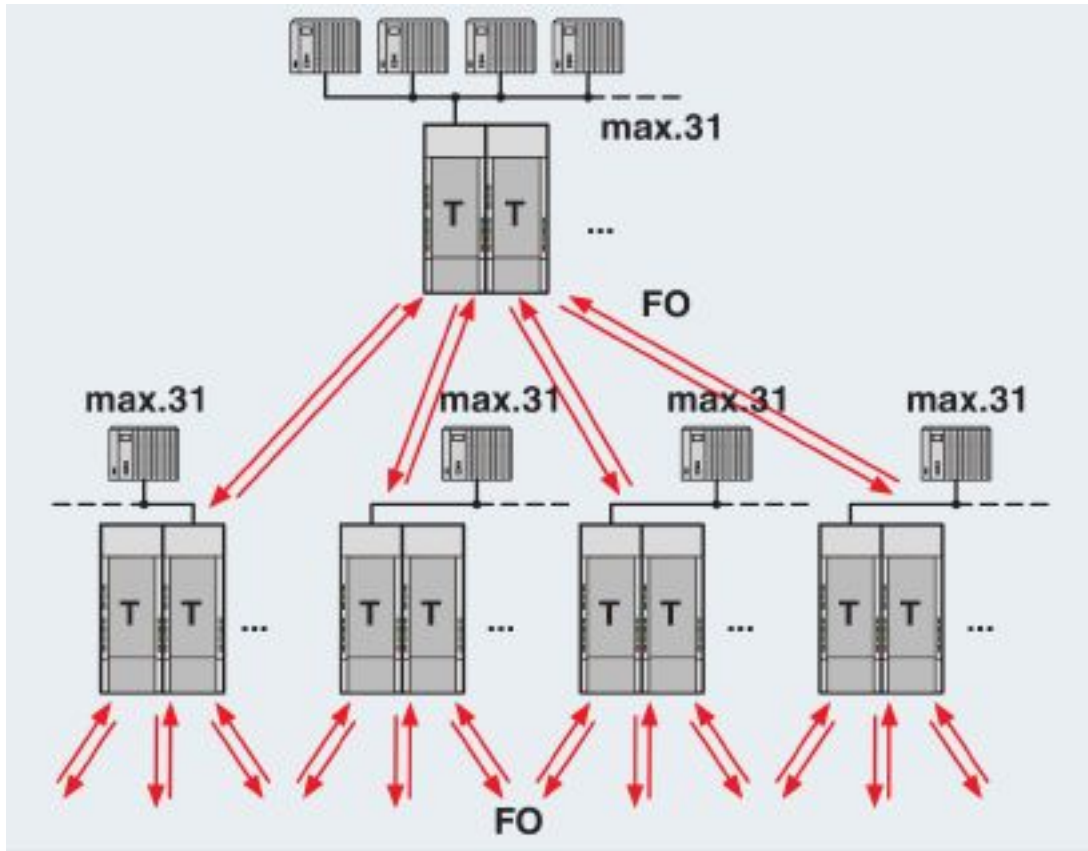
Application drawing



Star structure

# FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

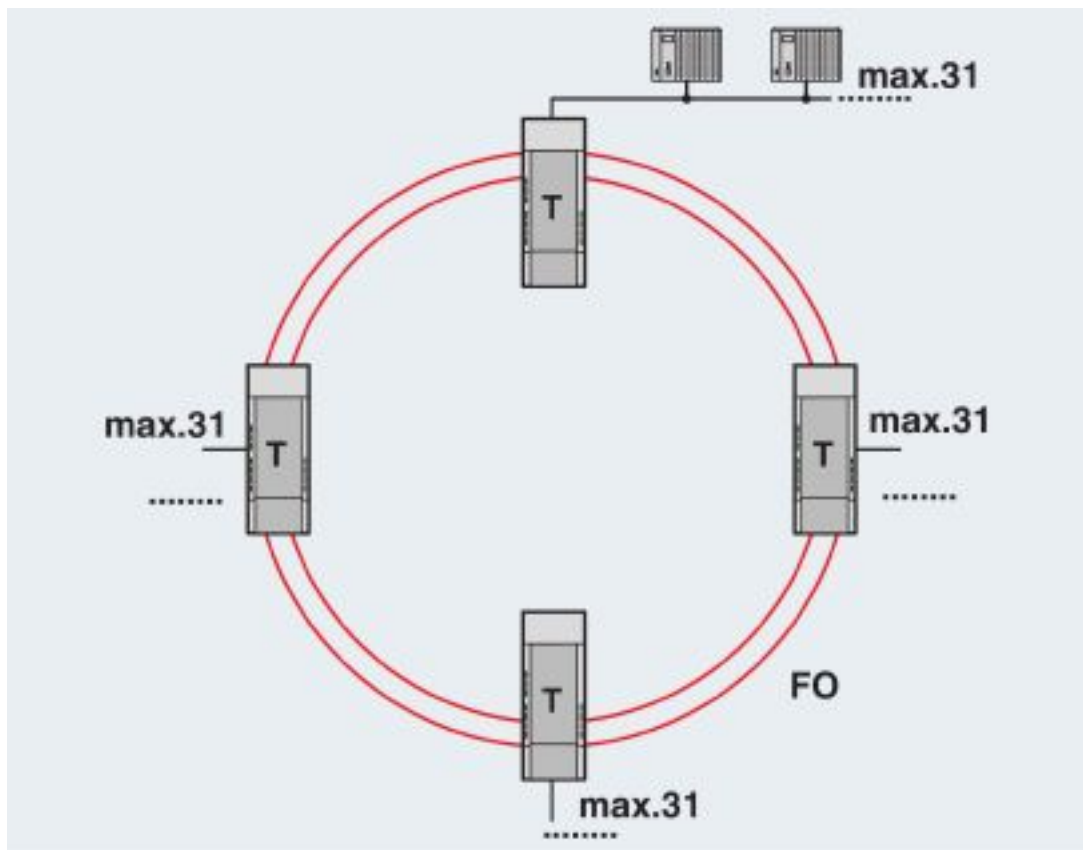
Application drawing



Tree structure

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Application drawing



Redundant FO ring

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 19170132 |
| eCl@ss 4.0    | 27230200 |
| eCl@ss 4.1    | 27230200 |
| eCl@ss 5.0    | 27230200 |
| eCl@ss 5.1    | 27230200 |
| eCl@ss 6.0    | 19179200 |
| eCl@ss 7.0    | 19179290 |
| eCl@ss 8.0    | 19179290 |
| eCl@ss 9.0    | 19170114 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001423 |
| ETIM 3.0 | EC001423 |
| ETIM 4.0 | EC001423 |
| ETIM 5.0 | EC000310 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 6.0 | EC001467 |
| ETIM 7.0 | EC001467 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11     | 39121008 |
| UNSPSC 12.01  | 39121008 |
| UNSPSC 13.2   | 43222604 |
| UNSPSC 18.0   | 43223323 |
| UNSPSC 19.0   | 43223323 |
| UNSPSC 20.0   | 43223323 |
| UNSPSC 21.0   | 43223323 |

## Approvals

### Approvals

#### Approvals

DNV GL / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAA00001KR |
|--------|--|---|------------|

|               |  |   |               |
|---------------|--|---|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|---------------|--|---|---------------|

|                |  |   |               |
|----------------|--|---|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|----------------|--|---|---------------|

|     |  |  |               |
|-----|--|--|---------------|
| EAC |  |  | EAC-Zulassung |
|-----|--|--|---------------|

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Approvals

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU *-<br>DE.A*30.B.01735 |
|-----|--|--------------------------|

|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

### Accessories

#### Accessories

#### Adapter

Connection distributor - PSM PTK - 2760623



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

Connection distributor - PSM PTK-4 - 2799364



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

#### Data cable by the meter

FO cable - PSM-LWL-HCS-RUGGED-200/230 - 2799885



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

FO cable - PSM-LWL-HCSO-200/230 - 2799445



PCF cable, duplex 200/230  $\mu$ m, by the meter, without connector, for outdoor installation

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

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#### FO cable - PSM-LWL-GDM-RUGGED- 50/125 - 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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#### FO cable - PSM-LWL-GDO- 50/125 - 2799432



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

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#### Bus system cable - PSM-CABLE-PROFIB/FC - 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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### Data cable preassembled

#### FO patch cable - FL MM PATCH 1,0 LC-ST - 2989174



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: LC/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

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#### FO patch cable - FL MM PATCH 2,0 LC-ST - 2989271



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: LC/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

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## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

#### FO patch cable - FL MM PATCH 5,0 LC-ST - 2901801



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: LC/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 5 m

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#### FO patch cable - FL MM PATCH 1,0 SC-ST - 2901809



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: SC duplex/B-FOC(ST), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

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#### FO patch cable - FL MM PATCH 5,0 SC-ST - 2901811



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: SC duplex/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 5 m

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#### FO patch cable - FL MM PATCH 1,0 ST-ST - 2901815



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: B-FOC(ST®)/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

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#### FO patch cable - FL MM PATCH 2,0 ST-ST - 2901816



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: B-FOC(ST®)/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

#### FO patch cable - FL MM PATCH 5,0 ST-ST - 2901817



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: B-FOC(ST®)/B-FOC(ST®), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 5 m

#### FO patch cable - FL MM PATCH 1,0 ST-SCRJ - 2901820



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: B-FOC(ST®)/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

#### FO patch cable - FL MM PATCH 2,0 ST-SCRJ - 2901821



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: B-FOC(ST®)/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

#### FO patch cable - FL MM PATCH 5,0 ST-SCRJ - 2901822



Assembled FO cable, break out cable, multimode fiberglass 50/125 µm (OM2), connector: B-FOC(ST®)/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 5 m

#### FO patch cable - FOC-HCS-RUGGED-1014/IP20/... - 2901555



Robust PCF 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



## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

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

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FO patch cable - FOC-HCSO-1015/IP20/... - 2901557



Highly rugged PCF 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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FO patch cable - FOC-GDM-RUGGED-1016/IP20/... - 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

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FO patch cable - FOC-GDM-RUGGED-1016/... - 1402193



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.

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FO patch cable - FOC-GDO-1017/IP20/... - 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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### Data plug

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/SC2 - 2708232



D-SUB connector, 9-pos., male connector, cable entry < 35°, 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

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/PG/SC2 - 2708245



D-SUB connector, 9-pos., male connector, cable entry < 35°, 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

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

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/SC - 2313708



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/IDC - 2313685



D-SUB connector, 9-pos., male connector, cable entry < 90°, 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

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## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

#### D-SUB bus connector - SUBCON-PLUS-PROFIB/AX/M12 - 2902321



D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two M12 cable glands (B-coded) under 180° (axial). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator.

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90X/M12 - 2902729



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

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/90/M12 - 2902318



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

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/35/M12 - 2902320



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

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### DIN rail connector

#### DIN rail bus connectors - ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - 2709561



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

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

DIN rail bus connectors - ME 17,5 TBUS 1,5/PP000-3,81 BK - 2890014



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

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### Interface converter

Repeater - PSI-REP-PROFIBUS/12MB - 2708863



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

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Repeater - PSM-ME-RS485/RS485-P - 2744429



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

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### Power supply

Power supply unit - MINI-SYS-PS-100-240AC/24DC/1.5 - 2866983



Primary-switched MINI POWER supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A

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### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 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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### Terminal resistor

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

Termination resistor - PSI-TERMINATOR-PB-TBUS - 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

FO connectors - PSM-SET-B-FOC/4-HCS - 2708481



B-FOC (ST) connector set for PCF fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve

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

Measuring instrument - PSM-FO-POWERMETER - 2799539



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

Fiber optic coupling - PSM-SET-BFOC-LINK/2 - 2799429



Coupling; set consisting of 2 couplings for connecting B-FOC plugs

## FO converters - PSI-MOS-PROFIB/FO 850 E - 2708274

### Accessories

Stripping tool - PSM-STRIP-FC/PROFIB - 2744623

Quick stripping tool for PROFIBUS cable, type Fast Connect



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