

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



FO converter with integrated optical diagnosis, alarm contact, for PROFIBUS up to 12 Mbps, T-coupler with two FO interfaces (BFOC), 850 nm, for fiber glass cable



Key commercial data

| | |
|------------------|---------------|
| package_quantity | 1 |
| GTIN | 4017918974176 |

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 | 105 mm |

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 30 % ... 95 % (no condensation) |
| Altitude | 5000 m (For restrictions see manufacturer's declaration) |
| Degree of protection | IP20 |

Serial interface

| | |
|--------------------------|---|
| Interface 1 | PROFIBUS acc. to IEC 61158, RS-485 2-wire, half duplex, automatic control |
| 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) |

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

Technical data

Serial interface

| | |
|--|---------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |
| Serial transmission speed | ≤ 12 Mbps |

Optical interface FO

| | |
|---|---|
| Transmit capacity, minimum | -4.2 dBm (200/230 μm) |
| Transmit capacity, minimum | -17.8 dBm (50/125 μm) |
| Transmit capacity, minimum | -14.6 dBm (62,5/125 μm) |
| Minimum receiver sensitivity | -30 dBm (50/125 μm) |
| Maximum receiver sensitivity | -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) |
| Transmission length incl. 3 dB system reserve | 3300 m (with F-G 62,5/125 3.0 dB/km) |
| Transmission length incl. 3 dB system reserve | 800 m (With F-K 200/230 10 dB/km with quick mounting connector) |
| Transmission medium | HCS fiber |
| Transmission medium | Multi-mode fiberglass |
| Connection method | B-FOC (ST [®]) |

Fault warning output

| | |
|-----------------------------|----------|
| Maximum switching voltage | 65 V DC |
| Maximum switching voltage | 150 V AC |
| Limiting continuous current | 0.46 A |

Power supply

| | |
|-----------------------------|---------------------------------------|
| Nominal supply voltage | 24 V DC |
| 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 |

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 _{rms} (50 Hz, 1 min.) |
| Net weight | 205 g |
| Housing material | PA 6.6-FR |
| Color | green |

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

Technical data

General

| | |
|-------------------------|---|
| MTBF | 149 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| MTBF | 24 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| Conformance | CE-compliant |
| ATEX | # II 3 G Ex nAC IIC T4 X |
| ATEX | # II (2) GD [Ex op is] IIC (PTB 06 ATEX 2042 U) |
| UL, USA / Canada | Class I, Zone 2, AEx nc IIC T5 |
| UL, USA / Canada | Class I, zone 2, Ex nC nL IIC T5 X |
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D |

classifications

eCl@ss

| | |
|-------------------|----------|
| eCl@ss 4.0 | 27230207 |
| eCl@ss 4.1 | 27230207 |
| eCl@ss 5.0 | 27230207 |
| eCl@ss 5.1 | 27230207 |
| eCl@ss 6.0 | 27230207 |
| eCl@ss 7.0 | 27230207 |
| eCl@ss 8.0 | 27230207 |

ETIM

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

UNSPSC

| | |
|----------------------|----------|
| UNSPSC 6.01 | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11 | 39121008 |
| UNSPSC 12.01 | 39121008 |
| UNSPSC 13.2 | 43201553 |

approvals

ATEX / UL Listed / cUL Listed / ATEX / UL Listed / cUL Listed / cULus Listed / UL Recognized / cUL Recognized / UL Recognized / cUL Recognized / cULus Recognized /

Approval details

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

approvals

| | |
|----------------------------|--|
| ATEX | |
| | |
| Nominal voltage UN | |
| Nominal current IN | |
| mm ² /AWG/kcmil | |

| |
|-----------|
| UL Listed |
|-----------|

| |
|------------|
| cUL Listed |
|------------|

| | |
|----------------------------|--|
| | |
| | |
| Nominal voltage UN | |
| Nominal current IN | |
| mm ² /AWG/kcmil | |

| |
|--|
| |
|--|

| |
|--|
| |
|--|

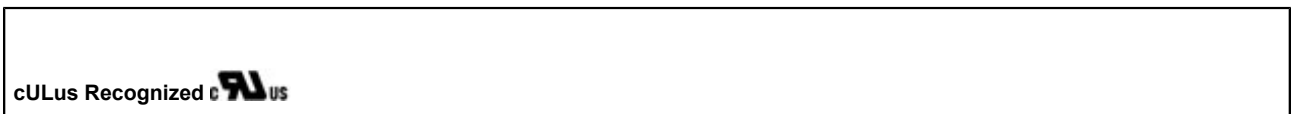
| |
|--------------|
| cULus Listed |
|--------------|

| |
|---------------|
| UL Recognized |
|---------------|

| |
|----------------|
| cUL Recognized |
|----------------|

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

approvals



accessories

Data cable by the meter

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



PSM-LWL-HCSO-200/230 - 2799445



PSM-LWL-GDM-RUGGED- 50/125 - 2799322



FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

accessories

PSM-LWL-GDO- 50/125 - 2799432



PSM-CABLE-PROFIB/FC - 2744652



PSM-CABLE-PROFIB/FC - 2744652



Power supply

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



DIN rail connector

ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - 2709561



Assembly tool

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

accessories

PSM-HCS-KONFTOOL/B-FOC - 2708465



Measuring tools

PSM-FO-POWERMETER - 2799539



Adapter

PSM-SET-BFOC-LINK/2 - 2799429



PSM PTK - 2760623



PSM PTK-4 - 2799364



Data plug

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

accessories

SUBCON-PLUS-PROFIB/SC2 - 2708232



SUBCON-PLUS-PROFIB/PG/SC2 - 2708245



SUBCON-PLUS-PROFIB/AX/SC - 2744380



Screwdriver tools

SZS 0,4X2,5 VDE - 1205037



Stripping tool

PSM-STRIP-FC/PROFIB - 2744623



Interface converter

FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

accessories

PSI-REP-PROFIBUS/12MB - 2708863



PSM-ME-RS485/RS485-P - 2744429



Data cable preassembled

FL MM PATCH 1,0 LC-ST - 2989174



FL MM PATCH 2,0 LC-ST - 2989271



FL MM PATCH 5,0 LC-ST - 2901801



FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

accessories

FL MM PATCH 1,0 SC-ST - 2901809



FL MM PATCH 5,0 SC-ST - 2901811



FL MM PATCH 1,0 ST-ST - 2901815



FL MM PATCH 2,0 ST-ST - 2901816



FL MM PATCH 5,0 ST-ST - 2901817



FL MM PATCH 1,0 ST-SCRJ - 2901820



FO converters - PSI-MOS-PROFIB/FO 850 T-SO - 2708614

accessories

FL MM PATCH 2,0 ST-SCRJ - 2901821



FL MM PATCH 5,0 ST-SCRJ - 2901822



Terminal resistor

PSI-TERMINATOR-PB - 2313944



accessories

ME 17,5 TBUS 1,5/PP000-3,81 BK - 2890014

Drawings

© Phoenix Contact 2013 - all rights reserved
<http://www.phoenixcontact.com>