

# FO converters - PSI-MOS-RS232/FO1300 E - 2708588

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Fiber optic converter with integrated optical diagnostics, alarm contact, for RS-232 interfaces up to 115.2 kbps, termination device with one fiber optic interface (SC duplex), 1300 nm, for fiberglass cable

## Product Features

- Connections can be plugged in using a COMBICON screw terminal block
- Supply voltage and data signals routed through via DIN rail connectors
- High-quality electrical isolation between all interfaces (RS-232 // 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
- Floating switch contact for leading alarm generation in relation to critical fiber optic paths
- Automatic data rate detection for all data rates up to 115.2 kbps



## Key commercial data

package_quantity	1
GTIN	4046356176286

## Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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## 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
Noise immunity	EN 61000-6-2:2005

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## Technical data

### Serial interface

<b>Interface 1</b>	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
<b>Connection method</b>	D-SUB-9 male connector
<b>Transmission medium</b>	Copper
<b>Transmission length</b>	≤ 15 m
<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	14
<b>Serial transmission speed</b>	115.2 kbps (NRZ)

### Optical interface FO

<b>Wavelength</b>	1300 nm
<b>Transmission length incl. 3 dB system reserve</b>	27 km (With F-G 50/125 0.7 dB/km at 1300 nm)
<b>Transmission length incl. 3 dB system reserve</b>	22 km (with F-G 62.5/125 0.8 dB/km at 1300 nm)
<b>Transmission length incl. 3 dB system reserve</b>	45 km (With F-E 9/125 0,4 dB/km at 1300 nm)
<b>Transmission medium</b>	Multi-mode fiberglass
<b>Transmission medium</b>	Single-mode fiberglass
<b>Transmission protocol</b>	Transparent to protocol for RS-232 interface
<b>Connection method</b>	SC duplex

### Fault warning output

<b>Maximum switching voltage</b>	60 V DC
<b>Maximum switching voltage</b>	42 V AC
<b>Limiting continuous current</b>	1 A

### Power supply

<b>Supply voltage range</b>	18 V DC ... 32 V DC
<b>Typical current consumption</b>	100 mA (24 V DC)
<b>Connection method</b>	COMBICON plug-in screw terminal block

### General

<b>Transmission channels</b>	2 (1/1), RxD, TxD, full duplex
<b>Bit distortion, input</b>	± 35 % (permitted)
<b>Bit distortion, output</b>	< 6.25 %
<b>Electrical isolation</b>	(VCC // V.24 (RS-232))
<b>Test voltage data interface/power supply</b>	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
<b>Electromagnetic compatibility</b>	Conformance with EMC directive 89/336/EC
<b>Noise emission</b>	EN 55011
<b>Net weight</b>	190 g
<b>Housing material</b>	PA 6.6-FR
<b>Color</b>	green

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## Technical data

### General

<b>MTBF</b>	549 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
<b>MTBF</b>	113 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
<b>Conformance</b>	CE-compliant
<b>ATEX</b>	# II 3 G Ex nA nC IIC T4 Gc X
<b>UL, USA / Canada</b>	508 listed
<b>UL, USA / Canada</b>	508 recognized

### classifications

#### eCl@ss

<b>eCl@ss 4.0</b>	27230207
<b>eCl@ss 4.1</b>	27230207
<b>eCl@ss 5.0</b>	27230207
<b>eCl@ss 5.1</b>	27230207
<b>eCl@ss 6.0</b>	27230207
<b>eCl@ss 7.0</b>	27230207
<b>eCl@ss 8.0</b>	27230207

#### ETIM

<b>ETIM 2.0</b>	EC001423
<b>ETIM 3.0</b>	EC001423
<b>ETIM 4.0</b>	EC001423
<b>ETIM 5.0</b>	EC001423

#### UNSPSC

<b>UNSPSC 6.01</b>	30211506
<b>UNSPSC 7.0901</b>	39121008
<b>UNSPSC 11</b>	39121008
<b>UNSPSC 12.01</b>	39121008
<b>UNSPSC 13.2</b>	43201553

### approvals

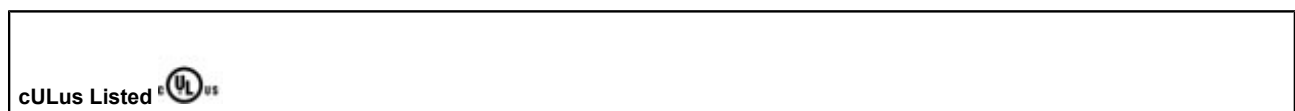
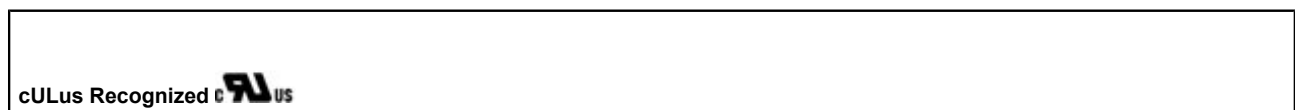
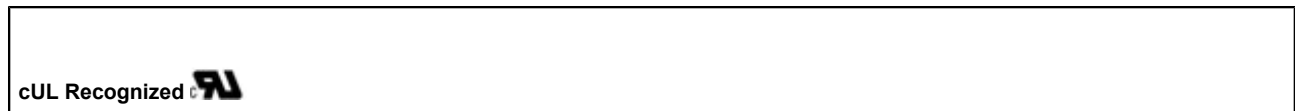
ATEX / UL Recognized / cUL Recognized / UL Listed / cUL Listed / cULus Recognized / cULus Listed /

#### Approval details



# FO converters - PSI-MOS-RS232/FO1300 E - 2708588

approvals



accessories

## Adapter cable

PSM-KAD-IL RS232/9SUB/B/0,8M - 2319200



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## Data cable preassembled

FL MM PATCH 1,0 LC-SC - 2989161



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### accessories

FL MM PATCH 2,0 LC-SC - 2989268



FL MM PATCH 5,0 LC-SC - 2901800



FL MM PATCH 1,0 SC-SC - 2901805



FL MM PATCH 2,0 SC-SC - 2901807



FL MM PATCH 5,0 SC-SC - 2901808



FL MM PATCH 1,0 SC-ST - 2901809



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### accessories

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FL MM PATCH 2,0 SC-ST - 2901810



FL MM PATCH 5,0 SC-ST - 2901811



FL MM PATCH 1,0 SC-SCRJ - 2901812



FL MM PATCH 2,0 SC-SCRJ - 2901813



FL MM PATCH 5,0 SC-SCRJ - 2901814



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### accessories

FL SM PATCH 1,0 LC-SC - 2989190



FL SM PATCH 2,0 LC-SC - 2989297



FL SM PATCH 5,0 LC-SC - 2901827



FL SM PATCH 1,0 SC-SC - 2901829



FL SM PATCH 2,0 SC-SC - 2901830



FL SM PATCH 5,0 SC-SC - 2901831



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### accessories

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FL SM PATCH 1,0 SC-ST - 2901832



FL SM PATCH 2,0 SC-ST - 2901833



FL SM PATCH 5,0 SC-ST - 2901834



FOC-GDM-RUGGED-1016/IP20/... - 2901558



FOC-GDM-RUGGED-1016/... - 1402193





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### accessories

FOC-GDO-1017/IP20/... - 2901559



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FOC-GDO-1017/... - 1402194



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### Data cable by the meter

PSM-LWL-GDO- 50/125 - 2799432



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

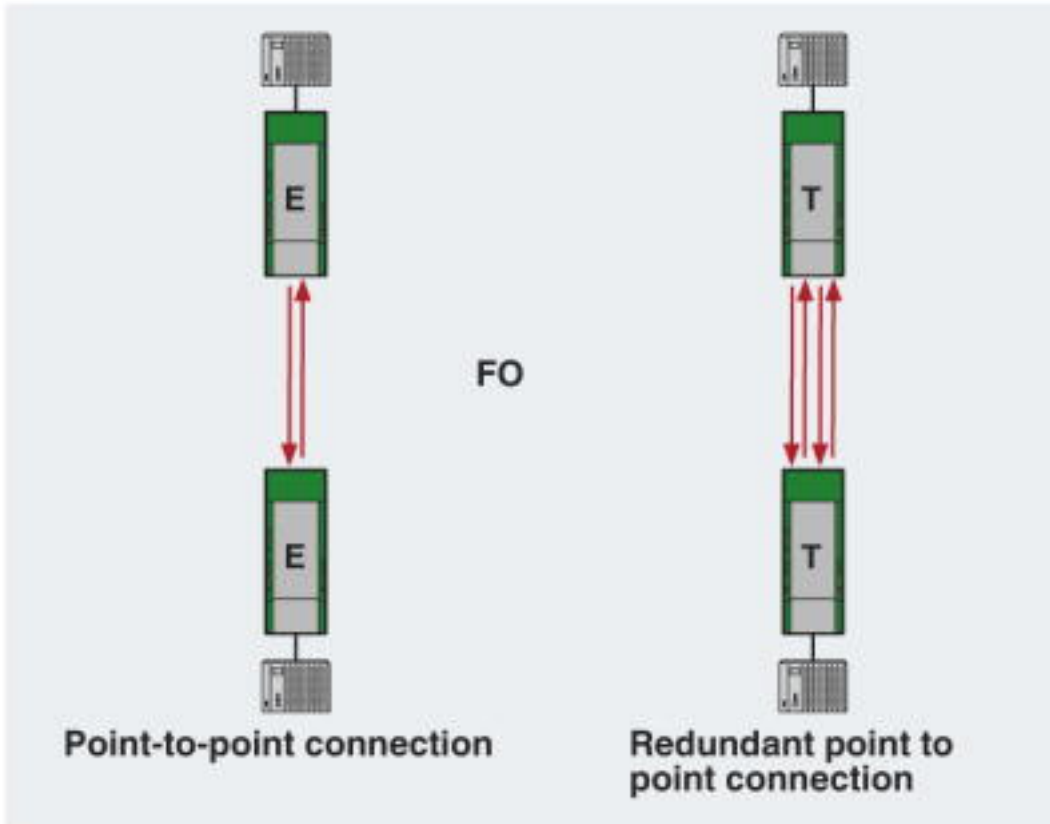


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### Drawings

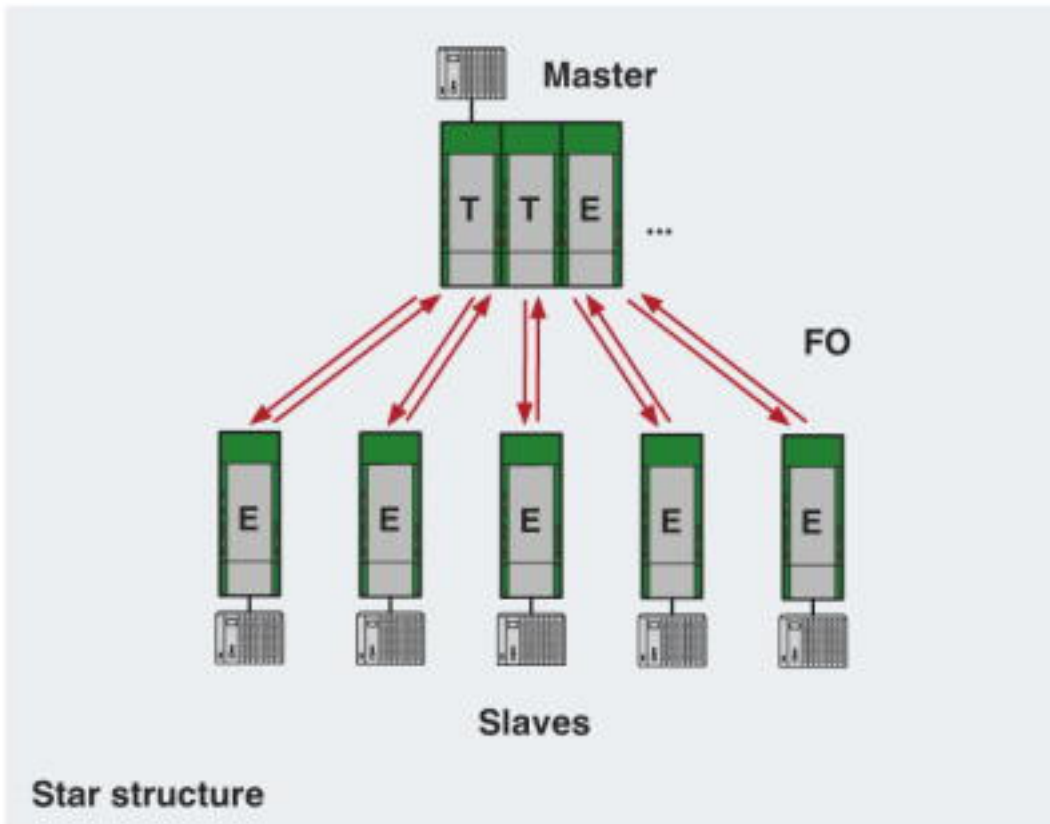
# FO converters - PSI-MOS-RS232/FO1300 E - 2708588

Application drawing



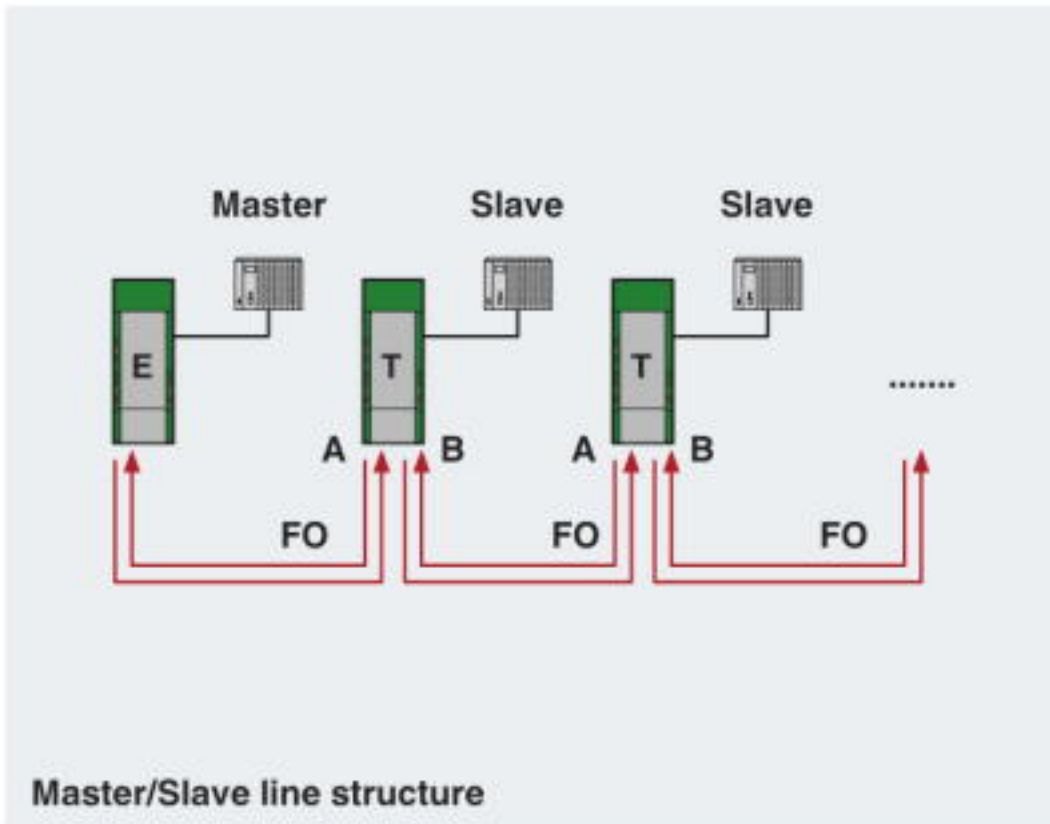
# FO converters - PSI-MOS-RS232/FO1300 E - 2708588

Application drawing



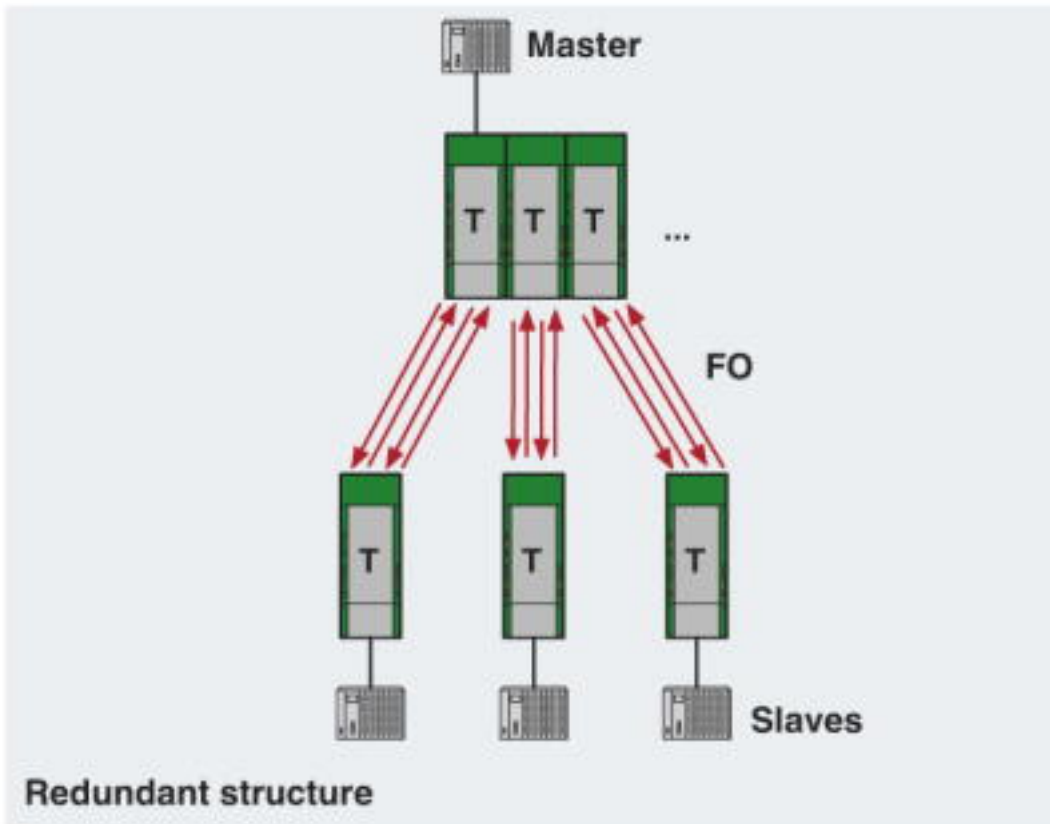
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Application drawing



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Application drawing



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