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► Extract from the online catalog



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

Order No.	2708290
Ord designation	PSI-MOS-PROFIB/FO 660 E
EAN	4017918973995
Pack	1 Pcs.
Customs tariff	85176200
Weight/Piece	0.225 KG
Catalog page information	Page 435 (IF-2007)

► Technical data

Serial interface

Interface 1	PROFIBUS acc. to IEC 61158, RS-485 2-wire, half-duplex, automatic control
Operating mode	Semi-duplex
File format/coding	UART (11 Bit, NRZ)
Data direction switching	Automatic control
Data rate	9,6/19,2/45,45/93,75/187,5/500/1500/3000/6000/12000 kBit/s, automatische Erkennung, optional Einstellung über DIP-Schalter
Transmission length	Max. 1200 m (With shielded, twisted-pair data line depending on the data rate)

PSI-MOS-PROFIB/FO 660 E



Type of connection
Serial transmission rate

D-SUB-9 female connector
9.6/19.2/45.45/93.75/187.5/500/1500/3000/6000/12000
kbps, automatic detection, optional setting using a DIP
switch

Optical interface FO

Transmit capacity, minimum	-3 dBm (980/1000 µm)
Transmit capacity, minimum	-15.4 dBm (200/230 µm)
Minimum receiver sensitivity	-30.00 dBm
Maximum receiver sensitivity	-3 dBm (980/1000 µm)
Wave length	660 nm
Transmission length incl. 3 dB system reserve	Min. 70 m (With F-K 980/1000 230 dB/km with a quick mounting connector)
Transmission length incl. 3 dB system reserve	Min. 400 m (with F-S 200/230 10 dB/km with quick mounting plug)
Transmission protocol	Transparent to protocol to the RS-485 interface
Type of connection	F-SMA

Fault warning output

Maximum switching voltage	60 V DC
Maximum switching voltage	42 V AC
Limiting continuous current	1 A

Power supply

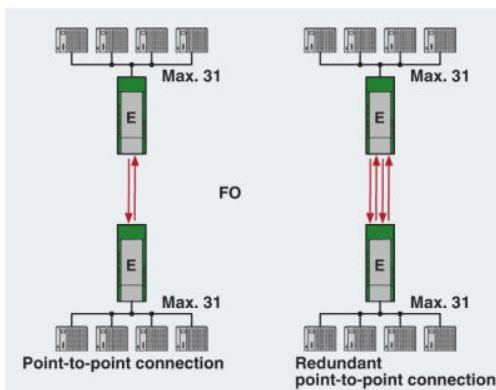
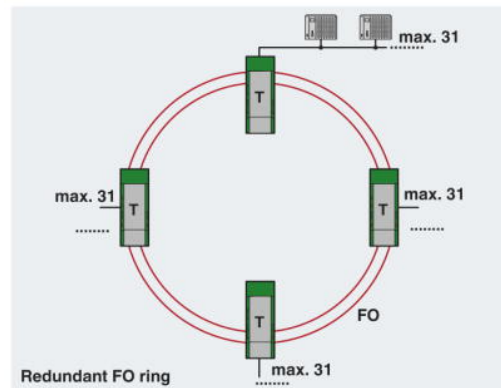
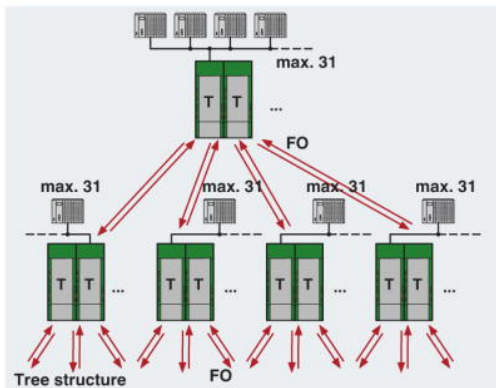
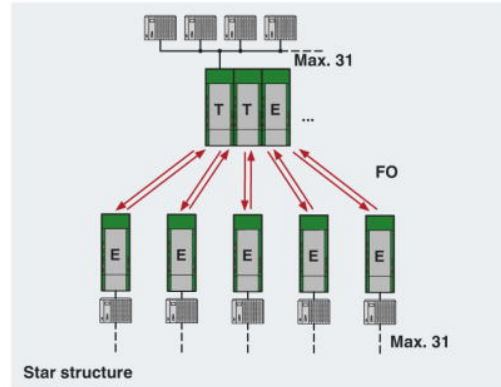
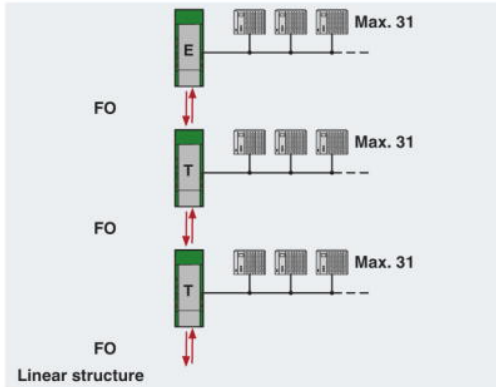
Nominal supply voltage	24 V DC ± 25%
Range of supply voltages	18 V DC ... 32 V DC
Typical current consumption	85 mA
Type of connection	Pluggable COMBICON screw terminal block

General data

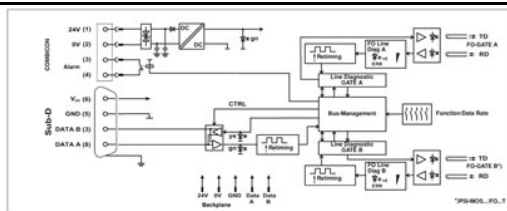
Bit delay	≤ 1 Bit
Bit distortion, input	± 35 % (permitted)
Bit distortion output	< 6.25 %
Length	99 mm
Height	105 mm
Width	35 mm
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (operation)	-20 °C ... 60 °C
Electrical isolation	RS-485 // supply
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 55011
Immunity to interference	EN 61000-6-2
Degree of protection	IP20
Weight	175 g
Housing material	PA V0, color green
Color	green
MTBF	453000 h in accordance with the Telcordia standard (ambient temperature 25°C)
MTBF	236000 h in accordance with the Telcordia standard (ambient temperature 40°C)

► Drawings

Application drawing

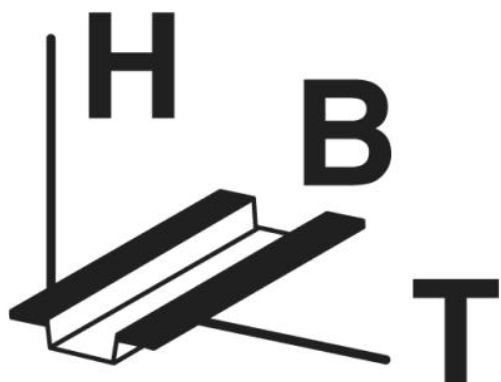


Block diagram



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

Logo



► Accessories

Item	Designation	Description
Cable/conductor		
2744652	PSM-CABLE-PROFIB/FC	PROFIBUS cable, Fast Connect type, up to 12 Mbit/s (02YSY (ST)CY 1x2x22 AWG)
2799885	PSM-LWL-HCS-RUGGED-200/230	HCS cable, duplex 200/230 µm, by the meter, without connector, for indoor installation
2799445	PSM-LWL-HCSO-200/230	HCS cable, duplex 200/230 µm, by the meter, without connector, for outdoor installation
2744319	PSM-LWL-KDHEAVY-980/1000	Polymer fiber cable, duplex 980/1000 µm, medium-weight version for permanent indoor installation, by the meter, without connector
2744322	PSM-LWL-RUGGED-980/1000	Polymer fiber cable, duplex 980/1000 µm, heavy-weight version for permanent indoor installation, by the meter, without connector
2744982	PSM-LWL-RUGGED-FLEX	Polymer fiber cable, duplex 980/1000 µm, heavy-weight, highly flexible version for flexible conduit applications, by the meter, with connector
2744335	PSM-LWL-RUGGED-FLEX-980/1000	Polymer fiber cable, duplex 980/1000 µm, heavy-weight, highly flexible version for flexible conduit applications, by the meter, without connector
2744937	PSM-LWL/HCS-RUGGED	HCS cable, duplex 200/230 µm, by the meter, with connector, for indoor installation
2744940	PSM-LWL/HCSO	HCS cable, duplex 200/230 µm, by the meter, with connector, for outdoor installation
2744966	PSM-LWL/KDHEAVY	Polymer fiber cable, duplex 980/1000 µm, medium-weight version for permanent indoor installation, by the meter, with connector
2744979	PSM-LWL/RUGGED	Polymer fiber cable, duplex 980/1000 µm, heavy-weight version for permanent indoor installation, by the meter, with connector
General		
2709561	ME 17,5 TBUS 1,5/ 5-ST-3,81 GN	Bus connector, gold-plated contacts, for mounting on DIN rail, 5-pos.
2890014	ME 17,5 TBUS 1,5/PP000-3,81 BK	DIN rail connector (optional) for routing through the supply voltage
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	Power supply unit, primary switched-mode, narrow design, output: 24 V DC / 1.5 A
2708863	PSI-REP-PROFIBUS/12MB	Modular repeater for electrical isolation and range increase for PROFIBUS up to 12 mbps, 4-way isolation, rail-mountable, supply 24 V DC
2760623	PSM PTK	Passive RS-485 T-distributor, fitted with one 9-pin SUB-D pin strip and two 9-pin SUB-D socket strips
2799364	PSM PTK-4	Passive RS-485 T-distributor, fitted with one 9-pin SUB-D pin strip and five 9-pin SUB-D socket strips
2744429	PSM-ME-RS485/RS485-P	Repeater, for potential separation and range increase in RS-485 2-wire bus systems, 3-way isolation, rail-mountable

Plug/Adapter

2799416	PSM-SET-FSMA-LINK/2	Coupling; set consisting of 2 couplings for connecting F-SMA plugs
2799487	PSM-SET-FSMA/4-HCS	F-SMA plug set for HCS fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve
2799720	PSM-SET-FSMA/4-KT	F-SMA plug set for polymer fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve
2744380	SUBCON-PLUS-PROFIB/AX/SC	PROFIBUS connector up to 12 Mbit/s, axial version, integrated terminating resistor that can be connected externally, connection system: Screw connection
2708245	SUBCON-PLUS-PROFIB/Pg/SC2	Small, angled Profibus connector with screw connection and additional Pg connection
2708232	SUBCON-PLUS-PROFIB/SC2	Small, angled Profibus connector with screw connection

Tools

1206146	KAMES LWL	Cable knife for polymer fiber, for external sheath
2799539	PSM-FO-POWERMETER	Fiber optic measuring case, consisting of an optical power meter, F-SMA, B-FOC adapters, reference fibers and operating instructions
2744199	PSM-FO-STRIP	Stripping pliers for polymer fiber, for individual elements
2799526	PSM-HCS-KONFTOOL	HCS DIY case for F-SMA quick mounting connector, including four F-SMA quick mounting connectors, stripping knife, stripping pliers, Aramid yarn scissors, fiber stripper, fiber cleaving tool and microscope
2744131	PSM-POF-KONFTOOL	Polymer fiber DIY case, consisting of: Stripping knife, stripping pliers, polishing wheels for F-SMA and SCRJ quick mounting connectors, polishing pad and emery paper
2799348	PSM-SET-FSMA-POLISH	Polymer fiber polishing set, for F-SMA quick mounting connectors
2744623	PSM-STRIP-FC/PROFIB	Quick stripping tool for Profibus cable, type Fast Connect
1205037	SZS 0,4X2,5	Screwdriver, bladed, matches all screw terminal blocks up to 1.5 mm ² connection cross section, blade: 0.4 x 2.5 mm

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