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FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

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FO converter with integrated optical diagnosis, for DeviceNet™, CAN, CANopen® to 800 kbps, basic module, interfaces: 1 x CAN, 1 x alarm, 1 x FO (FSMA), 660 nm, for polymer/HCS fiber cable

Product Features

☑ Data rates of up to 800 kbps, set via DIP switches

☑ Approved for use in zone 2

☑ Intrinsically safe fiber optic interface (Ex op is) for direct connection to devices in zone 1

☑ Integrated optical diagnostics for continuous monitoring of fiber optic paths

☑ High-quality electrical isolation between all interfaces (DeviceNet // fiber optic port // power supply // backplane)

☑ Integrated bus termination resistor can be connected internally

☑ Integrated backplane for routing through the supply voltage and data signals

☑ Connections can be plugged in using a COMBICON screw terminal block

☑ Floating switch contact in the basic module for leading alarm generation in relation to critical fiber optic paths

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	173.3 GRM
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

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

Dimensions

Width	22.5 mm

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Technical data

Dimensions

Height	99 mm
Depth	114.5 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 manufacturer's declaration)
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

Serial interface

Interface 1	CAN interface, in accordance with ISO/IS 11898 for DeviceNet, CAN, CANopen
Connection method	Pluggable screw connection
File format/coding	Bit stuffing, NRZ
Transmission medium	Copper
Transmission length	≤ 5000 m (Dependent on the data rate and the protocol used)
Termination resistor	120 Ω (Can be connected)
Serial transmission speed	≤ 800 kbps

Optical interface FO

Transmit capacity, minimum	-6.2 dBm (980/1000 µm)
	-16.9 dBm (200/230 µm)
Minimum receiver sensitivity	-30.2 dBm
Wavelength	660 nm
Transmission length incl. 3 dB system reserve	100 m (With F-P 980/1000 230 dB/km with quick mounting connector)
	800 m (With F-K 200/230 10 dB/km with quick mounting connector)
Transmission medium	Polymer fiber
	HCS fiber
Connection method	F-SMA

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

PHŒNIX CONTACT

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Technical data

Power supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Max. current consumption	100 mA
Typical current consumption	100 mA (24 V DC)
Connection method	Pluggable COMBICON screw terminal block through basic module

General

Bit distortion, input	± 35 % (permitted)
Bit distortion, output	< 6.25 %
Electrical isolation	VCC // CAN
Test voltage data interface/power supply	1.5 kV$_{rms}$ (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 55011
Housing material	PA 6.6-FR
Color	green
MTBF	409 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	82 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 (Please follow the special installation instructions in the documentation!)
	# II (2) GD [Ex op is] IIC (PTB 06 ATEX 2042 U) (Please follow the special installation instructions in the documentation!)
UL, USA / Canada	Class I, Zone 2, AEx nc IIC T5
	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	27143136

ETIM

ETIM 2.0	EC001423

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Classifications

ETIM

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

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

ATEX / UL Listed

Approvals submitted

Approval details

UL Recognized

cUL Recognized

cULus Recognized

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Accessories

Accessories

Adapter

Fiber optic coupling - PSM-SET-FSMA-LINK/2 - 2799416

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

Assembly tool

Assembly tool - PSM-POF-KONFTOOL - 2744131

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

Assembly tool - PSM-HCS-KONFTOOL - 2799526

HCS 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, and documentation

Assembly tool - PSM-SET-FSMA-POLISH - 2799348

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

Connector set

PHŒNIX CONTACT

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Accessories

FO connectors - PSM-SET-FSMA/4-KT - 2799720

F-SMA plug set for polymer fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve

FO connectors - PSM-SET-FSMA/4-HCS - 2799487

F-SMA plug set for HCS fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve

Data cable by the meter

FO cable - PSM-LWL-KDHEAVY-980/1000 - 2744319

Polymer fiber cable, duplex 980/1000 µm, medium-weight version for permanent indoor installation, by the meter, without connector

FO cable - PSM-LWL-RUGGED-980/1000 - 2744322

Polymer fiber cable, duplex, 980 µm/1000 µm, heavy version for permanent indoor installation, sold by the meter without connectors

FO cable - PSM-LWL-RUGGED-FLEX-980/1000 - 2744335

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

PHŒNIX CONTACT

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Accessories

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

HCS cable, duplex 200/230 µm, by the meter, without connector, for indoor installation

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

HCS cable, duplex 200/230 µm, by the meter, without connector, for outdoor installation

Bus system cable - SAC-5P-920/... - 1511504

Cable ring for CANopen® and DeviceNet™ cable, 5-pos., in cable lengths from 0.5 m to 400 m

Data plug

D-SUB bus connector - SUBCON-PLUS-CAN - 2744694

D-SUB connector, 9-pos. female connector, two cable entries < 35° to one terminal block row, bus system: CAN, CANopen®, SafetyBUS p up to 1 Mbps, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 7; screw connection terminal blocks

D-SUB bus connector - SUBCON-PLUS-CAN/PG - 2708119

D-SUB connector, 9-pos. socket, cable entry < 35°, bus system: CAN, CANopen®, SafetyBUS p up to 1 Mbps, with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 6, 7, 9; screw terminal blocks

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Accessories

D-SUB bus connector - SUBCON-PLUS-CAN/AX - 2306566

D-SUB connector, 9-pos. female connector, axial version with two cable entries, bus system: CAN, CANopen, SafetyBUS p; pin assignment: 2, 3, 7; screw connection terminal blocks

D-SUB bus connector - SUBCON-PLUS-CAN/90/PG/M12 - 2902322

D-SUB plug, 9-pos., socket, with PG-D-SUB pin, assignment: 2, 3, 5, 6, 7, 9; two M12 cable glands (A-coded) under 90°. Bus system: CAN, CANopen®. Termination resistor via separate M12 terminator.

D-SUB bus connector - SUBCON-PLUS-CAN/90/M12 - 2902323

D-SUB plug, 9-pos., socket, assignment: 2, 3, 5, 6, 7, 9; two M12 cable glands (A-coded) under 90°. Bus system: CAN, CANopen®. Termination resistor via separate M12 terminator.

D-SUB bus connector - SUBCON-PLUS-CAN/35/PG/M12 - 2902324

D-SUB plug, 9-pos., socket, with PG-D-SUB pin, assignment: 2, 3, 5, 6, 7, 9; two M12 cable glands (A-coded) under 35°. Bus system: CAN, CANopen®. Termination resistor via separate M12 terminator.

D-SUB bus connector - SUBCON-PLUS-CAN/35/M12 - 2902325

D-SUB plug, 9-pos., socket, assignment: 2, 3, 5, 6, 7, 9; two M12 cable glands (A-coded) under 35°. Bus system: CAN, CANopen®. Termination resistor via separate M12 terminator.

PHŒNIX CONTACT

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Accessories

D-SUB bus connector - SUBCON-PLUS-CAN/AX/M12 - 2902326

D-SUB plug, 9-pos., socket, assignment: 2, 3, 5, 6, 7, 9; two M12 cable glands (A-coded) under 180° (axial). Bus system: CAN, CANopen®. Termination resistor via separate M12 terminator.

D-SUB bus connector - SUBCON-PLUS-CAN - 2744694

D-SUB connector, 9-pos. female connector, two cable entries < 35° to one terminal block row, bus system: CAN, CANopen®, SafetyBUS p up to 1 Mbps, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 7; screw connection terminal blocks

D-SUB bus connector - SUBCON-PLUS-CAN/PG - 2708119

D-SUB connector, 9-pos. socket, cable entry < 35°, bus system: CAN, CANopen®, SafetyBUS p up to 1 Mbps, with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 6, 7, 9; screw terminal blocks

D-SUB bus connector - SUBCON-PLUS-CAN/AX - 2306566

D-SUB connector, 9-pos. female connector, axial version with two cable entries, bus system: CAN, CANopen, SafetyBUS p; pin assignment: 2, 3, 7; screw connection terminal blocks

Measuring tools

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

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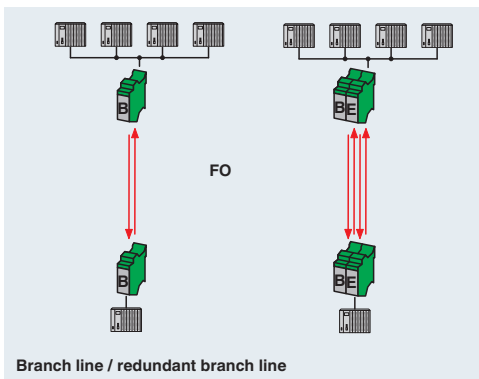
Accessories

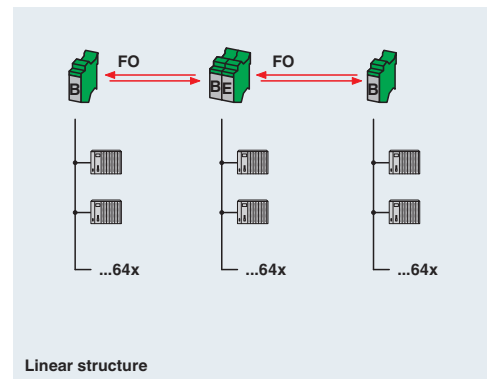### Screwdriver tools

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
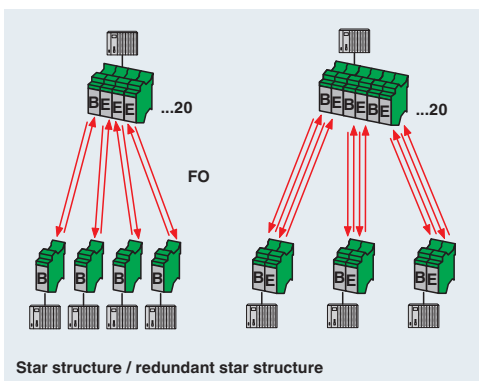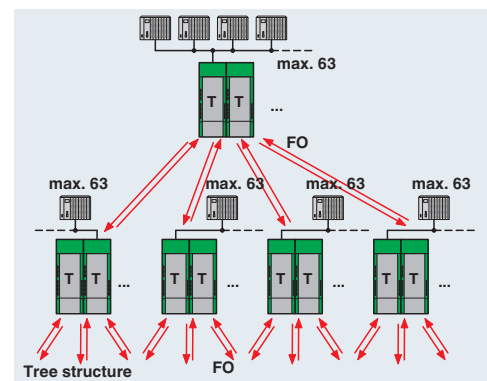
Drawings

Application drawing

Branch line / redundant branch line

Application drawing

Linear structure

Application drawing

Star structure / redundant star structure

Application drawing
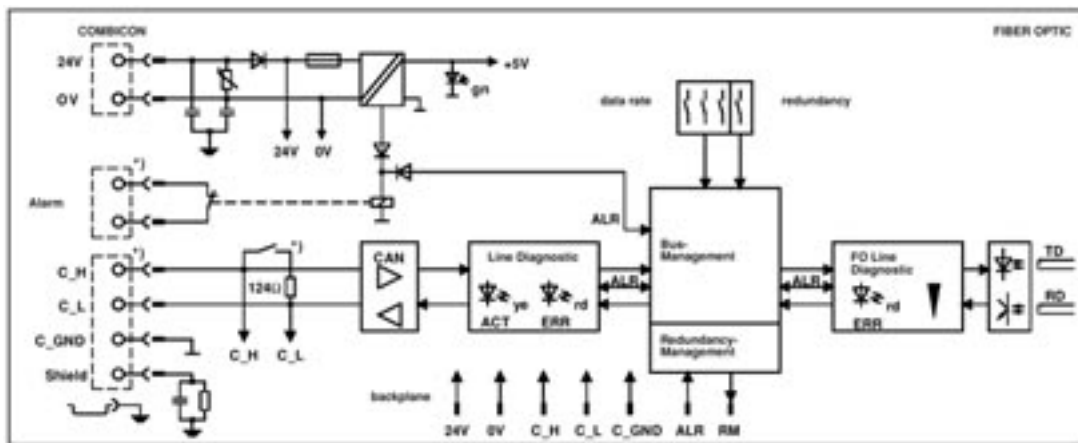
Tree structure

PHŒNIX CONTACT

FO converters - PSI-MOS-DNET CAN/FO 660/BM - 2708054

Catalog photo

Figure may contain other products.

Block diagram

*) Only in the basic module