

# PSI-MOS-DNET CAN/FO 660/BM


Order No.: 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



Commercial data	
GTIN (EAN)	 4 017918 943226
sales group	H622
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 509 (IF-2009)

**Product notes**

WEEE/RoHS-compliant since:  
10/30/2006



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Technical data	
Serial interface	
Interface 1	CAN interface, in accordance with ISO/IS 11898 for DeviceNet, CAN, CANopen

File format/coding	Bit stuffing, NRZ
Termination resistor	120 $\Omega$ , integrated connection in the basic module
Transmission length	max. 5000 m (Dependent on the data rate and the protocol used)
Connection method	Pluggable screw connection
Serial transmission speed	Maximum 800 kbps

#### Optical interface FO

Transmit capacity, minimum	-6.2 dBm (980/1000 $\mu$ m) -16.9 dBm (200/230 $\mu$ m)
Minimum receiver sensitivity	-30.20 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)
Connection method	F-SMA

#### Fault warning output

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

#### Power supply

Nominal supply voltage	24 V DC $\pm$ 25%
Supply voltage range	10 V DC ... 48 V DC
Typical current consumption	100 mA (24 V DC)
Connection method	Pluggable COMBICON screw terminal block through basic module

#### General data

Bit distortion, input	$\pm$ 35 % (permitted)
Bit distortion, output	< 6.25 %
Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (storage/transport)	-40 $^{\circ}$ C ... 85 $^{\circ}$ C
Ambient temperature (operation)	-20 $^{\circ}$ C ... 60 $^{\circ}$ C
Electrical isolation	(VCC // CAN)

Test voltage data interface/power supply	1.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 55011
Noise immunity	EN 61000-6-2:2005
Degree of protection	IP20
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))
ATEX	Ex II 3 G Ex nAC IIC T4 X
	Ex II (2) GD [Ex op is] IIC (PTB 06 ATEX 2042 U)
UL, USA / Canada	Class I, zone 2, AEx nc IIC

#### Certificates / Approvals



Certification	CUL, UL
Certification Ex:	CUL-EX LIS, PTB, UL-EX LIS

#### Accessories

Item	Designation	Description
<b>Cable/conductor</b>		
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 µm/1000 µm, heavy version for permanent indoor installation, sold by the meter without connectors

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**

1511504	SAC-5P-920/...	Cable ring for CANopen and DeviceNet™ cable, 5-pos., in cable lengths from 0.5 m to 400 m
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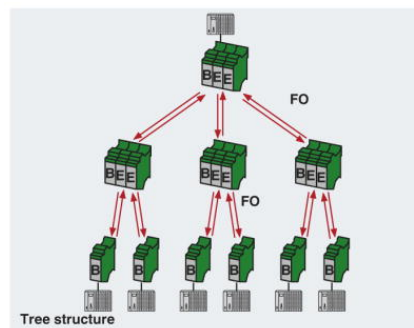
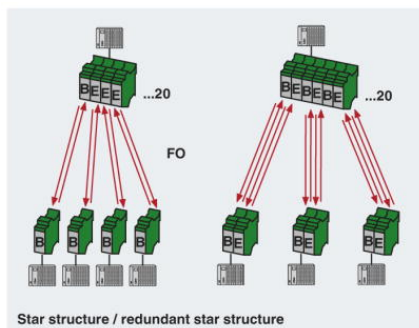
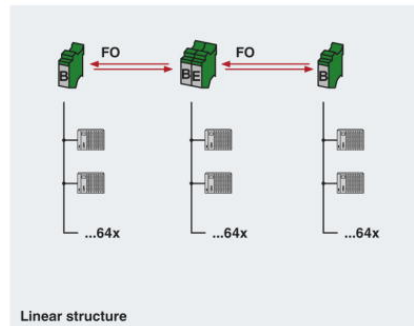
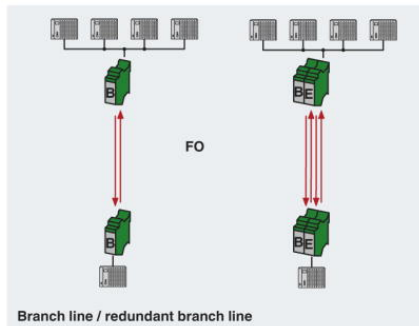
**Plug/Adapter**

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
2744694	SUBCON-PLUS-CAN	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
2744694	SUBCON-PLUS-CAN	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
2306566	SUBCON-PLUS-CAN/AX	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
2306566	SUBCON-PLUS-CAN/AX	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
2708119	SUBCON-PLUS-CAN/PG	D-SUB connector, 9-pos. female connector, cable entry < 35°, bus system: CAN, CANopen, SafetyBUS p up to 1 Mbps, with PG D-SUB female connector for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 6, 7, 9; screw terminal blocks

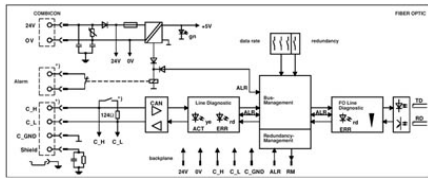
2708119	SUBCON-PLUS-CAN/PG	D-SUB connector, 9-pos. female connector, cable entry < 35°, bus system: CAN, CANopen, SafetyBUS p up to 1 Mbps, with PG D-SUB female connector for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 6, 7, 9; screw terminal blocks
<b>Tools</b>		
2799539	PSM-FO-POWERMETER	Fiber optic measuring case, consisting of an optical power meter, F-SMA, B-FOC adapters, reference fibers and operating instructions
2799526	PSM-HCS-KONFTOOL	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
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
1205037	SZS 0,4X2,5 VDE	Screwdriver, bladed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

### Diagrams/Drawings

#### Application drawing



Block diagram



\*) Only in the basic module

**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



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