

PSI-MOS-RS422/FO 850 T

Order No.: 2708397



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2708397>

FO converter with integrated optical diagnosis, alarm contact, for RS-422/RS-485 4-wire/ INTERBUS to 2 Mbps, T-coupler with two FO interfaces (BFOC), 850 nm, for HCS/fiber glass cable



Commercial data

GTIN (EAN)	4017918974091
sales group	H622
Pack	1 pcs.
Customs tariff	85176200
Weight/Piece	0.2485 KG
Catalog page information	Page 511 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
07/18/2008



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Technical data

Serial interface

Interface 1	RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1
Operating mode	Full duplex

Transmission length	max. 1000 m (depending on the data rate, with shielded, twisted data cable)
Type of connection	Pluggable screw connection
Serial transmission speed	Maximum 2 Mbps
Optical interface FO	
Transmit capacity, minimum	-4.6 dBm (200/230 µm)
	-17.6 dBm (50/125 µm)
	-13.6 dBm (62.5/125 µm)
Minimum receiver sensitivity	-33.20 dBm
Wave length	850 nm
Transmission length incl. 3 dB system reserve	2800 m (With F-K 200/230 10 dB/km with quick mounting connector)
	4200 m (with F-G 50/125 2.5 dB/km)
	4800 m (with F-G 62,5/125 3.0 dB/km)
Type of connection	B-FOC
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 ± 25%
Range of supply voltages	18 V DC ... 32 V DC
Typical current consumption	130 mA (24 V DC)
Type of connection	Pluggable COMBICON screw terminal block
General data	
Transmission channels	2 (1/1) RD, TD, full duplex
Bit distortion, input	± 35 % (permitted)
Bit distortion output	< 6.25 %
Width	35 mm
Height	105 mm
Depth	99 mm
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (operation)	-20 °C ... 60 °C
Electrical isolation	RS-422 // supply

Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 55011
Immunity to interference	EN 61000-6-2:2005
Degree of protection	IP20
Housing material	PA V0, color green
Color	green
MTBF	279000 h in accordance with the Telcordia standard (ambient temperature 25°C)
	120000 h in accordance with the Telcordia standard (ambient temperature 40°C)
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, PxC-EX, UL-EX LIS

Accessories

Item	Designation	Description
Cable/conductor		
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
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
General		
2709561	ME 17,5 TBUS 1,5/ 5-ST-3,81 GN	DIN rail connector for DIN rail power supply unit, gold-plated contacts, for DIN rail mounting, 5-pos.

2890014	ME 17,5 TBUS 1,5/PP000-3,81 BK	Plug component
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A
2799322	PSM-LWL-GDM-RUGGED-50/125	Glass fiber cable, duplex 50/125 µm, by the meter, without connector, for indoor installation
2799432	PSM-LWL-GDO- 50/125	Glass fiber cable, duplex 50/125 µm, by the meter, without connector, for outdoor installation
2744911	PSM-LWL/GDM-RUGGED	Glass fiber cable, duplex 50/125 µm, by the meter, with connector, for indoor installation
2744924	PSM-LWL/GDO	Glass fiber cable, duplex 50/125 µm, by the meter, with connector, for outdoor installation
2744416	PSM-ME-RS232/RS485-P	Interface converter, for converting RS-232 (V.24) to RS-422 (V.11) and RS-485, with electrical isolation, 2 channels, rail-mountable

Plug/Adapter

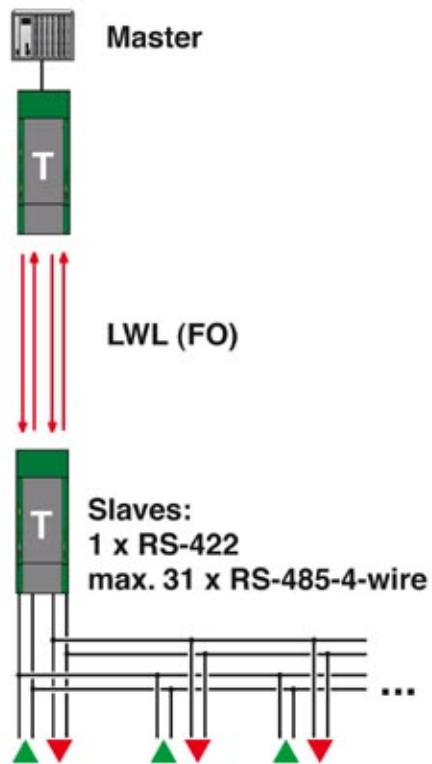
2799429	PSM-SET-BFOC-LINK/2	Coupling; set consisting of 2 couplings for connecting B-FOC plugs
2799487	PSM-SET-FSMA/4-HCS	F-SMA plug set for HCS fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve
2744241	SUBCON-PLUS 9/F	D-SUB connector, 9-pos. female connector, two cable entries < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block
2744018	SUBCON-PLUS 9/M	D-SUB connector, 9-pos., male connector, two cable entries < 35°, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block

Tools

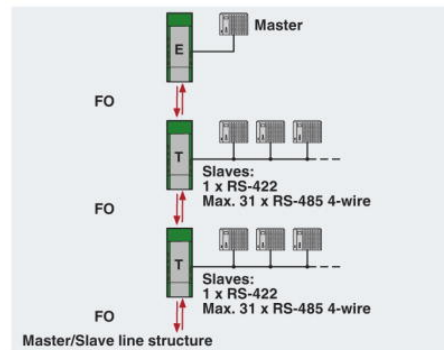
2799539	PSM-FO-POWERMETER	Fiber optic measuring case, consisting of an optical power meter, F-SMA, B-FOC adapters, reference fibers and operating instructions
2708465	PSM-HCS-KONFTOOL/B-FOC	HCS assembly kit for B-FOC (ST) quick mounting connectors, including stripping blade, stripping pliers, aramide yarn scissors, fiber stripper, microscope, fiber cleaving tool for standard HCS and HCS GI fibers, and documentation
1205037	SZS 0,4X2,5	Screwdriver, bladed, matches all screw terminal blocks up to 1.5 mm² connection cross section, blade: 0.4 x 2.5 mm

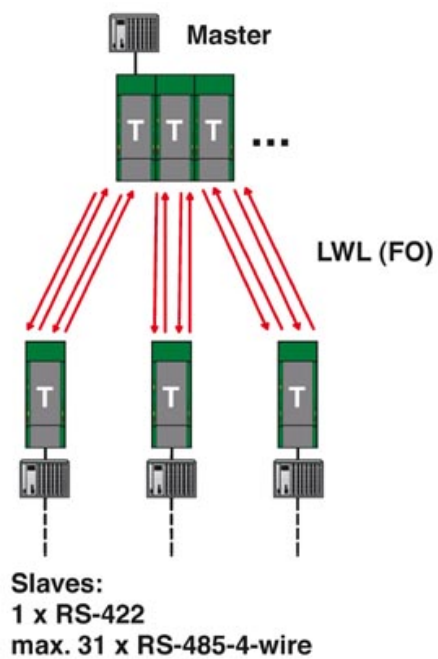
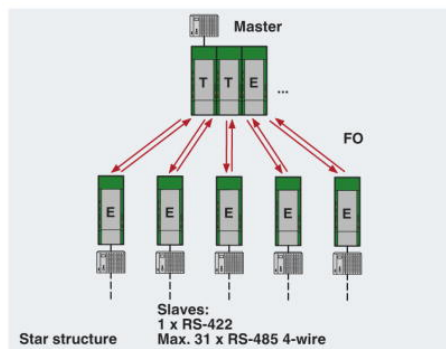
Diagrams/Drawings

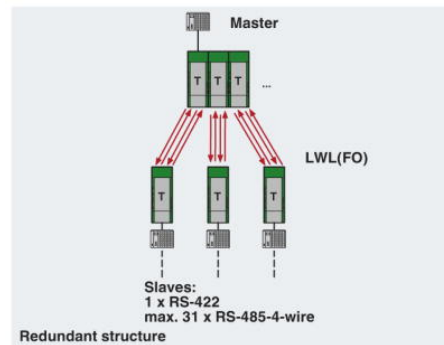
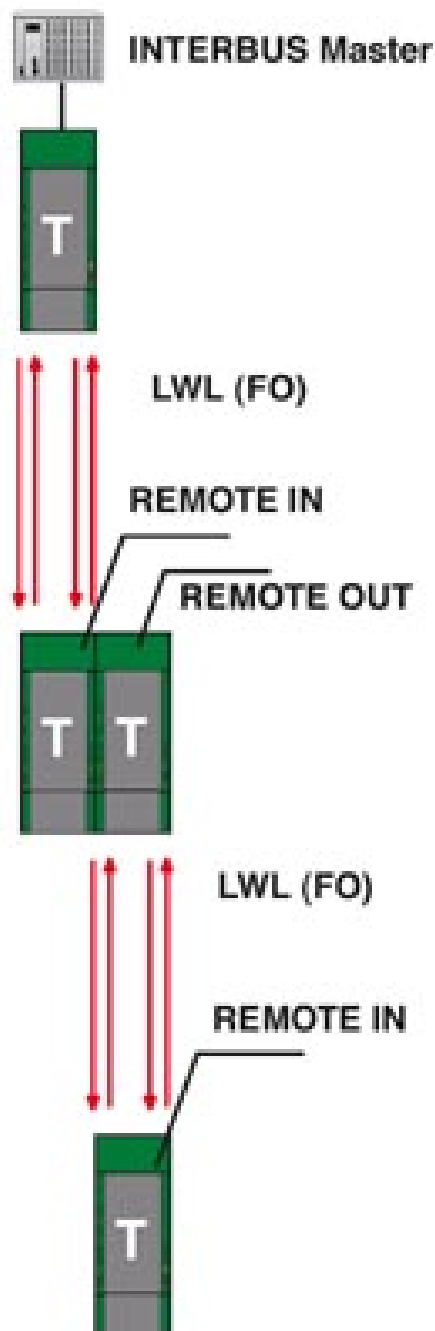
Application drawing



Redundant point-to-point connection

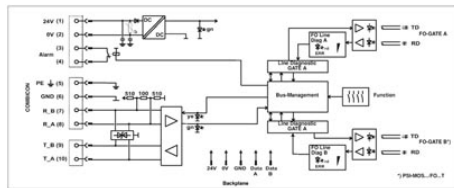






INTERBUS with PSI-MOS-RS-422
Redundant connection

Block diagram



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

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