

PSI-MODEM/ETH - Modem



2313300

<https://www.phoenixcontact.com/gb/products/2313300>

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Industrial Ethernet modem for assembly on EN DIN rails. For dialed operation in Europe, USA and Canada. Ethernet interface, electric 3-way isolation, supply voltage 24 V DC

Your advantages

- Callback function
- Configurable, selective call acceptance
- Integrated surge protection to ensure high system availability
- Connection establishment with password protection
- High-quality electrical isolation

Commercial data

Item number	2313300
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC412
GTIN	4046356308083
Weight per piece (including packing)	336.8 g
Weight per piece (excluding packing)	290.4 g
Country of origin	DE

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Modem
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Insulation characteristics

Pollution degree	2
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Electrical properties

Electrical isolation	VCC // PSTN // Ethernet
Maximum power dissipation for nominal condition	2.4 W
Mains type	Fixed-line network
Test voltage data interface/power supply	1.5 kV (50 Hz, 1 min.)
Test voltage data interfaces	1500 V

Supply

Supply voltage range	10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Nominal supply voltage	24 V DC $\pm 5\%$ (as an alternative or redundant, via backplane bus contact and system current supply)
Typical current consumption	< 100 mA (24 V DC)
	< 70 mA (stand by)

Function

Management	Web-based management, SNMP or Factory Manager Software FL SWT
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Connection data

Supply

Tightening torque	0.56 Nm ... 0.79 Nm
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Interfaces

Signal	Ethernet
Web server	yes

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

Serial transmission speed	10/100 Mbps, auto negotiation
Connection method	RJ45 jack, shielded
No. of channels	1
Transmission length	100 m (shielded twisted pair)
Protocols supported	TCP/IP, UDP, TFTP, HTTP, Modbus/TCP, PPP, PROFINET,

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Auxiliary protocols	EtherNet/IP™, CHAP
Data flow control/protocols	ARP, DHCP, BOOTP, SNMP, RIP, RARP, HTTP, TFTP, ICMP
	TCP/IP, UDP, TFTP, HTTP, Modbus/TCP, PPP, PROFINET, EtherNet IP, CHAP

Data: PSTN-Port (a/b-Line)

Serial transmission speed	300 Bd ... 56 kBd
Connection method	RJ12, 6-pos.
Dialing procedure	Multiple frequency/pulse dialing, configuration via software
Error correction	V.42 (LAP-M or MNP 2 to 4)
Data compression	V.42bis (throughput 4:1), MNP 5 (throughput 2:1)
Acoustic signaling	Integrated piezo (during the dialing process)

Dimensions

Width	45 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Material (Housing)	PA V0
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Mechanical tests

Free fall in accordance with IEC 60068-2-32	: 1 m
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 5g in each space direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: Operation: 15g, 11 ms period, half-sine shock pulse : Storage: 30g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) ≤ 2000 m (in acc. with UL)

Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification	508 Listed Class I, Zone 2, AEx nA IIC T6 Class I, Zone 2, Ex nA IIC T6 Gc X
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Corrosive gas test

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Identification	ISA-S71.04-1985 G3 Harsh Group A
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2:2005

Noise emission

Standards/regulations	EN 55032
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Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	± 6 kV (Test Level 3)
Discharge in air	± 8 kV (Test Level 3)
Comments	Criterion B

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Frequency range	Test Level 3
Field intensity	10 V/m
Comments	Criterion A

Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Input	± 2 kV (Test Level 3)
Signal	± 1 kV (Test Level 3)
Comments	Criterion B

Surge current load (surge)

Standards/regulations	EN 61000-4-5
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Surge current load (surge)

Input	± 2 kV
Signal	± 1 kV
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6
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Conducted interference

Comments	Criterion A
Voltage	10 V

Emitted interference

Standards/regulations	EN 55032
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Comments	Class A, industrial applications
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Mounting

Mounting type	DIN rail mounting
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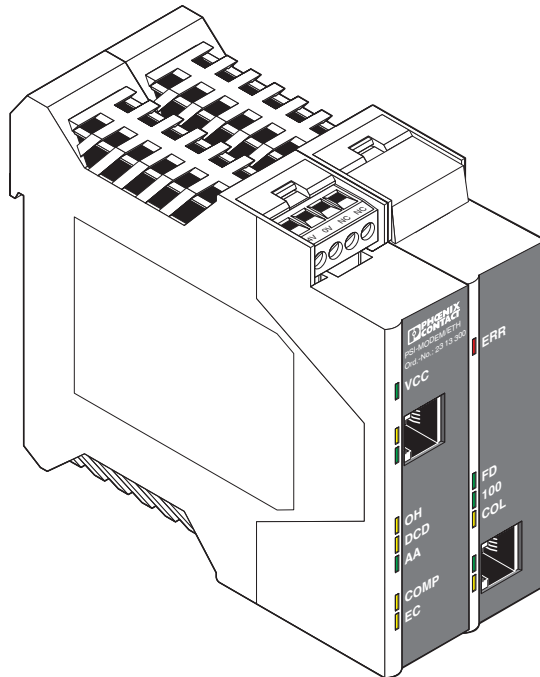
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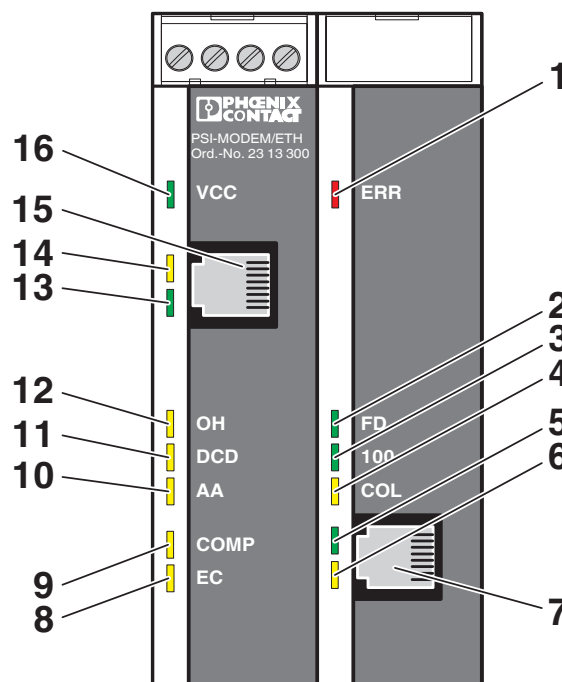


Drawings

Schematic diagram



Schematic diagram



Front view

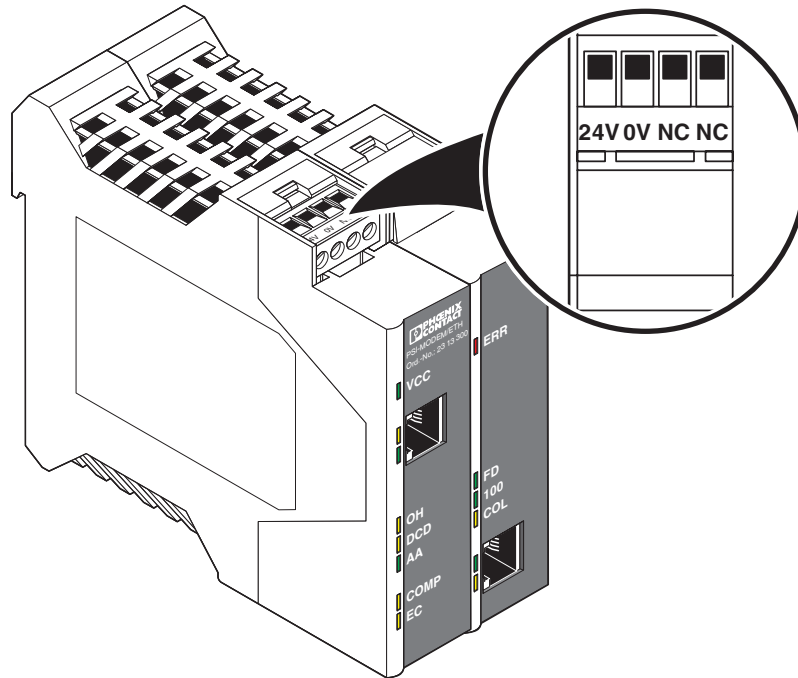
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Schematic diagram



Connecting the supply voltage

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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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