

SUBCON-PLUS-MODBUS/IL/BK - D-SUB bus connector



2310808

<https://www.phoenixcontact.com/us/products/2310808>

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D-SUB connector, 9-pos., male connector, two 35° cable entries, bus system: for Inline Modbus RTU/ASCII bus coupler termination resistance can be connected via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

Your advantages

- Change to the D-SUB orientation through a reversible connection block

Commercial data

Item number	2310808
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC512
GTIN	4046356124461
Weight per piece (including packing)	41.75 g
Weight per piece (excluding packing)	41.8 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Data plug
MTTF	6706 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1817 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	155 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Pin assignment	3, 5, 6, 8

Electrical properties

Nominal voltage U_N	30 V AC/DC
Nominal current I_N	100 mA

Connection data

D-SUB connection

Connection method	D-SUB connector
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PCB connection

Connection method	Screw connection
Stripping length	5 mm
Conductor cross-section, rigid min.	0.14 mm ²
Conductor cross-section, rigid max.	0.5 mm ²
Conductor cross-section flexible min.	0.14 mm ²
Conductor cross-section flexible max.	0.5 mm ²
Single-wire/terminal point, rigid AWG min.	26
Single-wire/terminal point, rigid AWG max.	20
Min. AWG conductor cross-section, flexible	26
Max. AWG conductor cross-section, flexible	20
Tightening torque	0.22 Nm ... 0.25 Nm

Interfaces

Signal	Modbus
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Dimensions

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Dimensional drawing	
Width	16 mm
Height	49.5 mm
Length	60 mm

Material specifications

Color (Housing)	white aluminium (RAL 9006)
Material (Housing)	ABS (metal-plated)

Cable/line

External cable diameter	7.6 mm ... 10 mm (Incoming bus line)
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 200
Fixing screws	4-40 UNC
Tightening torque	0.4 Nm

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Operation: 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Operation: 15g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40
Ambient temperature (operation)	-20 °C ... 75 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Approvals

Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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Standards and regulations

Free from substances that could impair the application of coating	VDMA 24364:2018-05
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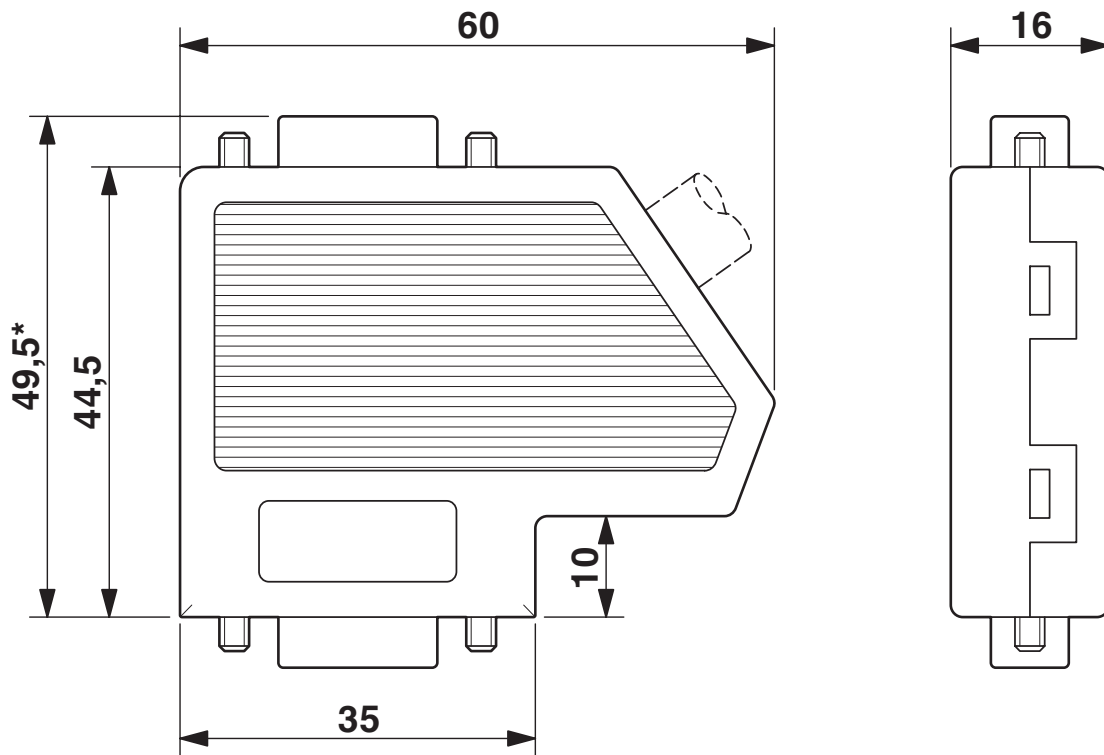


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Drawings

Dimensional drawing



Dimensional drawing

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Approvals

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cUL Recognized
Approval ID: E238705



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Classifications

ECLASS

ECLASS-13.0	27440302
ECLASS-15.0	27440322

ETIM

ETIM 10.0	EC001132
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

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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