SUBCON-PLUS-F/AX 9 - D-SUB bus connector

2311797

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D-SUB connector, 9-pos. female connector, axial version with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

Product description

The 9-pos. version of the SUBCON-... connector range is not just suitable for INTERBUS, but is positively ideal. A whole host of further applications are opened up by having all the connections assigned to their own 1 mm^2 screw terminal block. The range covers SUBCON plugs for point-to-point connections with a cable infeed in 9, 15 and 25-pos. male or female versions.

Your advantages

- Assembly under field conditions
- Separate terminal blocks for each cable
- High transmission speed
- Easy assembly thanks to knurled screws
- High level of EMC
- Can be used universally

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2311797
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC511
GTIN	4046356293945

Weight per piece (including packing)	38.5 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.

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	All connections are 1:1 on the screw terminal block

Electrical properties

Nominal voltage U_N	50 V
Nominal current I_N	100 mA

Connection data

Tightening torque	... 0.4 Nm

D-SUB connection

Connection method	D-SUB socket
Tightening torque	0.4 Nm

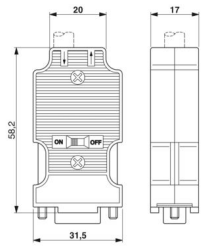
PCB connection

Connection method	Screw connection
Stripping length	4.5 mm
Conductor cross-section, rigid min.	0.14 mm²
Conductor cross-section, rigid max.	0.5 mm²
Conductor cross-section flexible min.	0.14 mm²
Conductor cross-section flexible max.	0.5 mm²
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	0.12 Nm ... 0.15 Nm

Interfaces

Bus system	Universal type for all systems
Signal	RS-232
	RS-422
	RS-485

Dimensions

Dimensional drawing	
Width	17 mm
Height	31.5 mm
Length	58.2 mm

Material specifications

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

Cable/line

External cable diameter	7.6 mm ... 8.4 mm (Incoming bus line)

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	IP20
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

ATEX

Identification	II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF15ATEX2744241X
Note	Please follow the special installation instructions in the documentation!

Corrosive gas test

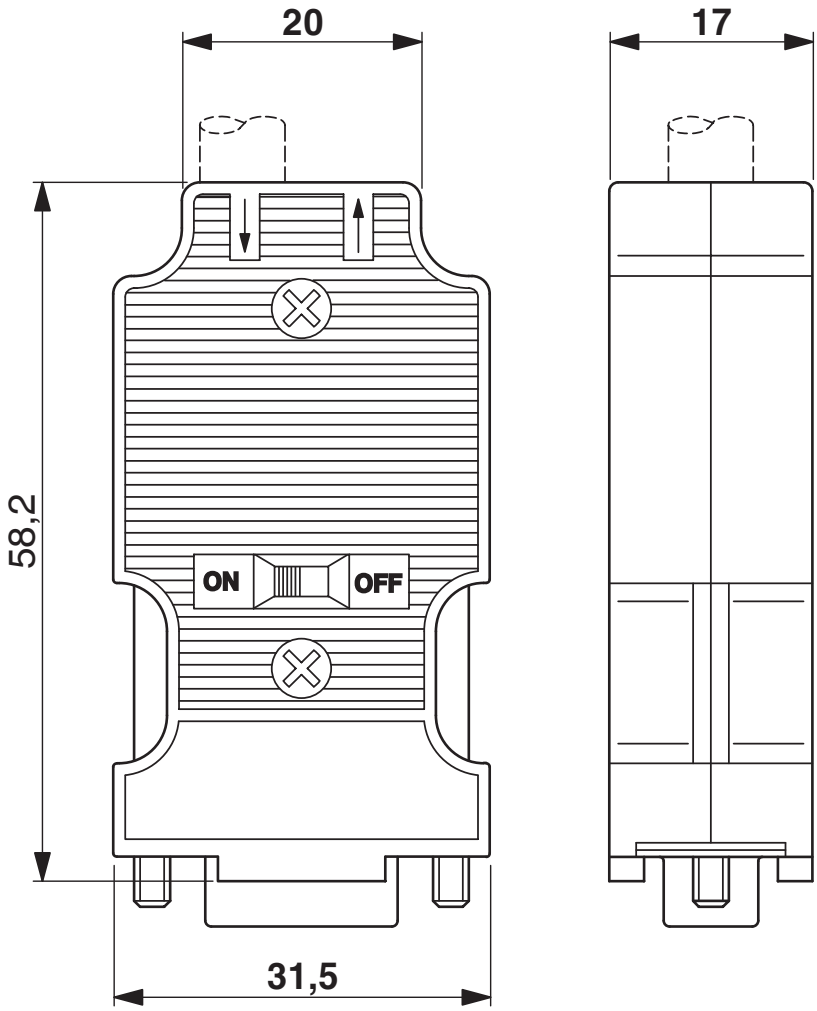
Identification	ISA-S71.04-1985 G3 Harsh Group A

Standards and regulations

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

Drawings

Dimensional drawing



Dimensional drawing SUBCON-PLUS-.../AX...

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2311797

cULus Recognized
Approval ID: E238705

Classifications

ECLASS

ECLASS-13.0	27440302
ECLASS-15.0	27440322

ETIM

ETIM 10.0	EC001132

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

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

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