

# SUBCON-PLUS-CAN/AX/M12 - D-SUB bus connector



2902326

<https://www.phoenixcontact.com/nl/products/2902326>

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D-SUB connector, 9-pos. socket, assignment: 2, 3, 5, 7, 9; two M12 cable entries (A-coded), axial. Bus system: CAN, CANopen®. Termination resistor via separate M12 terminator.

## Product description

The SUBCON-PLUS fast connectors with M12 connection ensure error-free installation of bus systems, thanks to the use of fully-tested components such as cables and connectors. The innovative housing concept is lightweight yet offers optimum mechanical protection against environmental influences. This means that the fast connection plugs are ideal, even in applications subject to vibration. The unique SPEEDCON fast locking system on the M12 connections offers reliable connection with just half a turn.

## Your advantages

- Assembly under field conditions
- Quick connection thanks to M12-SPEEDCON fast locking system
- Through-contacted shielding from M12 to D-SUB

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2902326       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DNC541        |
| Product key                          | DNC541        |
| GTIN                                 | 4046356655019 |
| Weight per piece (including packing) | 62,9 g        |
| Weight per piece (excluding packing) | 62,6 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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## Technical data

### Notes

#### Note on application

Note on application

Only for industrial use

### Product properties

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

2, 3, 5, 7, 9

### Electrical properties

Nominal voltage  $U_N$

5 V

Nominal current  $I_N$

100 mA

### Connection data

Tightening torque

... 0.4 Nm

#### D-SUB connection

Connection method

D-SUB socket

#### M12 connector

Connection method

M12 male, A-coded

#### M12 connector

Connection method

M12 female, A-coded

### Interfaces

Bus system

CAN, CANopen, SafetyBus-P

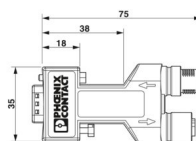
Signal

CAN

CANopen®

### Dimensions

Dimensional drawing



Width

16 mm

Height

75 mm

Length

38 mm

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## Material specifications

|                    |           |
|--------------------|-----------|
| Material (Housing) | Polyamide |
|--------------------|-----------|

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Degree of protection                     | IP40                                                                                   |
| Ambient temperature (operation)          | -30 °C ... 80 °C                                                                       |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C                                                                       |
| Ambient temperature (assembly)           | -20 °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)                                                          |

## Standards and regulations

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

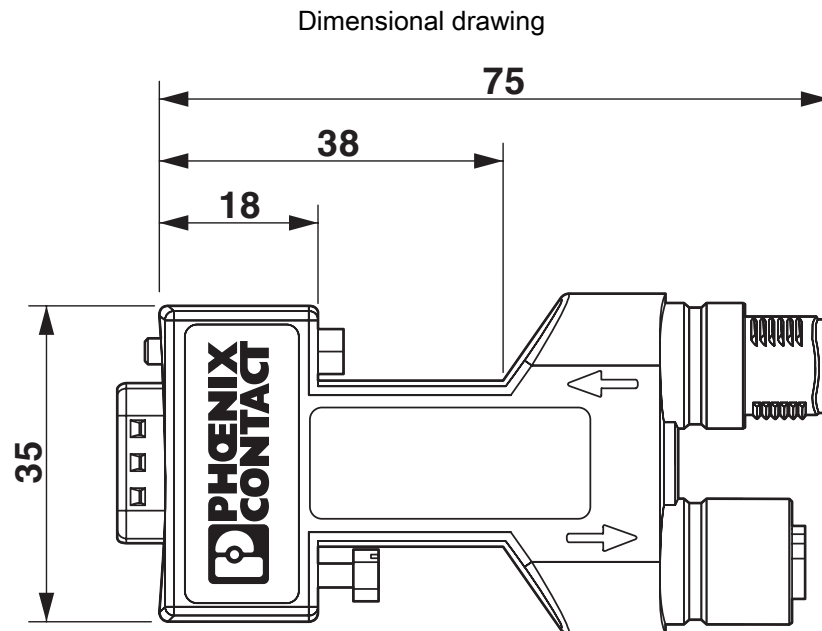
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## Drawings



SUBCON-PLUS...AX...M12 dimensional drawing, axial (180°) version

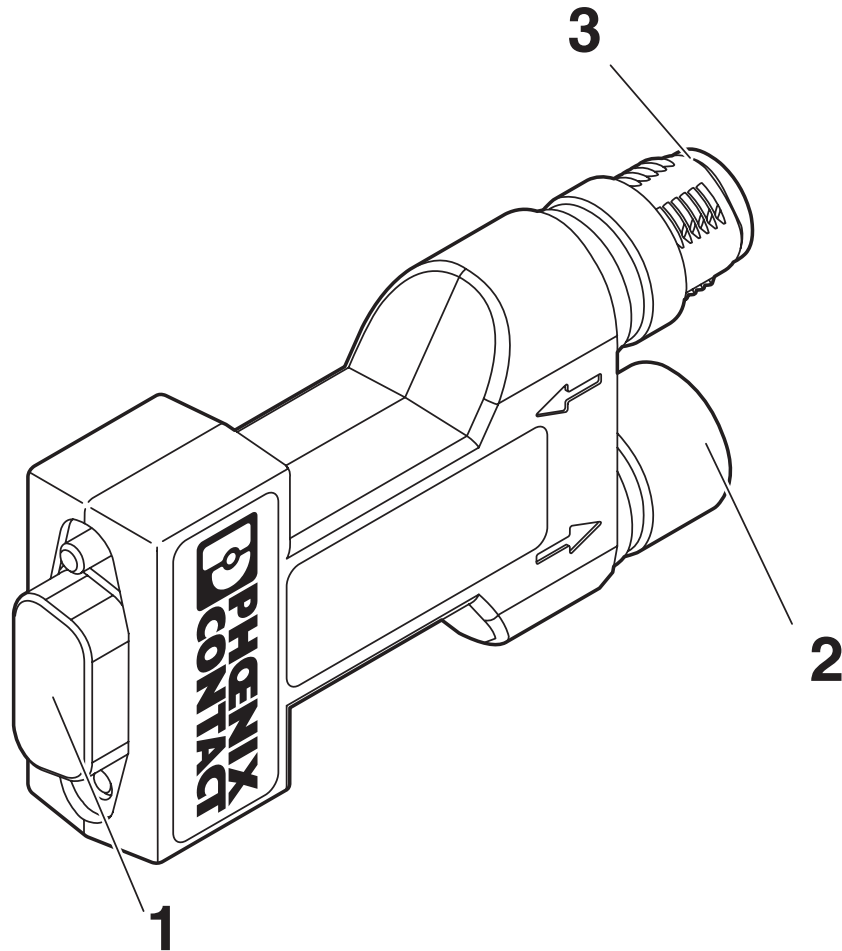
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Schematic diagram



## Function elements

- 1 = D-SUB 9
- 2 = Outgoing M12 connection
- 3 = Incoming M12 connection
- 4 = D-SUB PG connection (depending on the version)

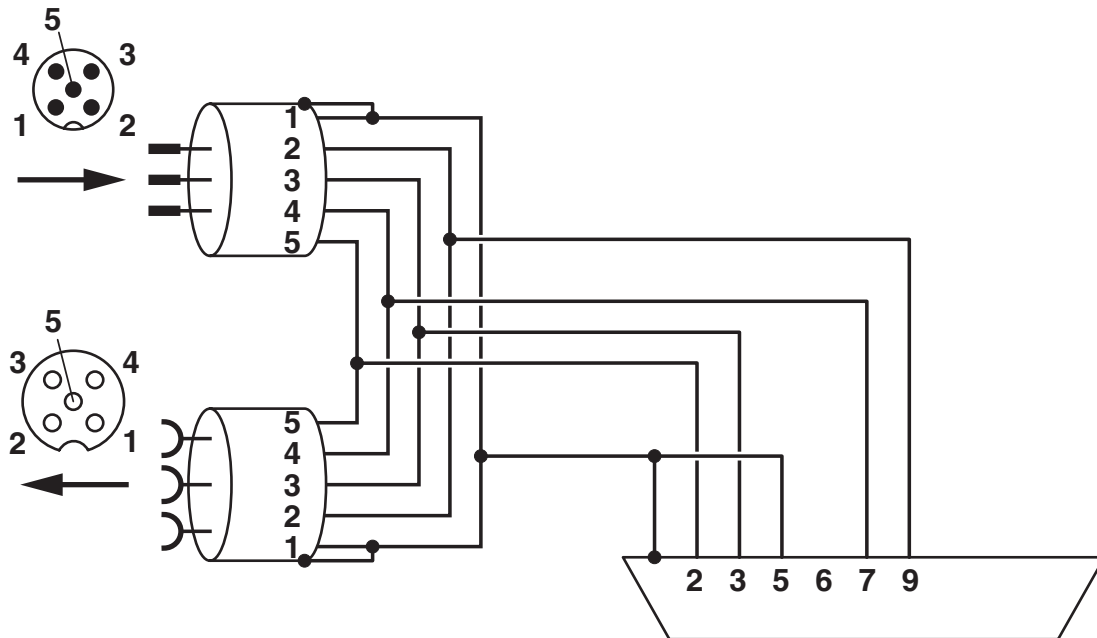
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Block diagram



SUBCON-PLUS-CAN/...M12 function block diagram

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## 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  |
| Exemption                               | 6(c) |

### China RoHS

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

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | d958f5aa-00a4-41be-b945-0c44901b5f01 |