

SUBCON-PLUS-PROFIB/90X/M12 - D-SUB bus connector



2902729

<https://www.phoenixcontact.com/us/products/2902729>

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D-SUB plug, 9-pos., pin, assignment: 3, 5, 6, 8; two 90° cable entries M12 (B-coded). Bus system: PROFIBUS DP up to 12 Mbps. Termination resistor via separate M12 terminator. Long version; S7-compatible.



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

- Easy startup, plug and play
- Error-free installation, particularly in standard machine production
- Quick connection thanks to M12-SPEEDCON fast locking system
- Low weight
- PROFIBUS
- Specifically for S7 300
- Termination using M12 termination resistor
- Adapter between IP20 and IP67 environments
- Through-contacted shielding from M12 to D-SUB

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2902729 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN10 |
| Product key | DNC531 |
| GTIN | 4046356672597 |
| Weight per piece (including packing) | 71.5 g |
| Weight per piece (excluding packing) | 71 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

| | |
|----------------|--|
| 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 | 5 V |
| Nominal current I_N | 100 mA |

Connection data

| | |
|-------------------|------------|
| Tightening torque | ... 0.4 Nm |
|-------------------|------------|

D-SUB connection

| | |
|-------------------|-----------------|
| Connection method | D-SUB connector |
|-------------------|-----------------|

M12 connector

| | |
|-------------------|-------------------|
| Connection method | M12 male, B-coded |
|-------------------|-------------------|

M12 connector

| | |
|-------------------|---------------------|
| Connection method | M12 female, B-coded |
|-------------------|---------------------|

Interfaces

| | |
|------------|-------------|
| Bus system | PROFIBUS DP |
| Signal | PROFIBUS |

Dimensions

| | |
|---------------------|-------|
| Dimensional drawing | |
| Width | 16 mm |
| Height | 41 mm |
| Length | 93 mm |

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Material specifications

| | |
|--------------------|------------------|
| Color (Housing) | black (RAL 9005) |
| 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 | 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) | -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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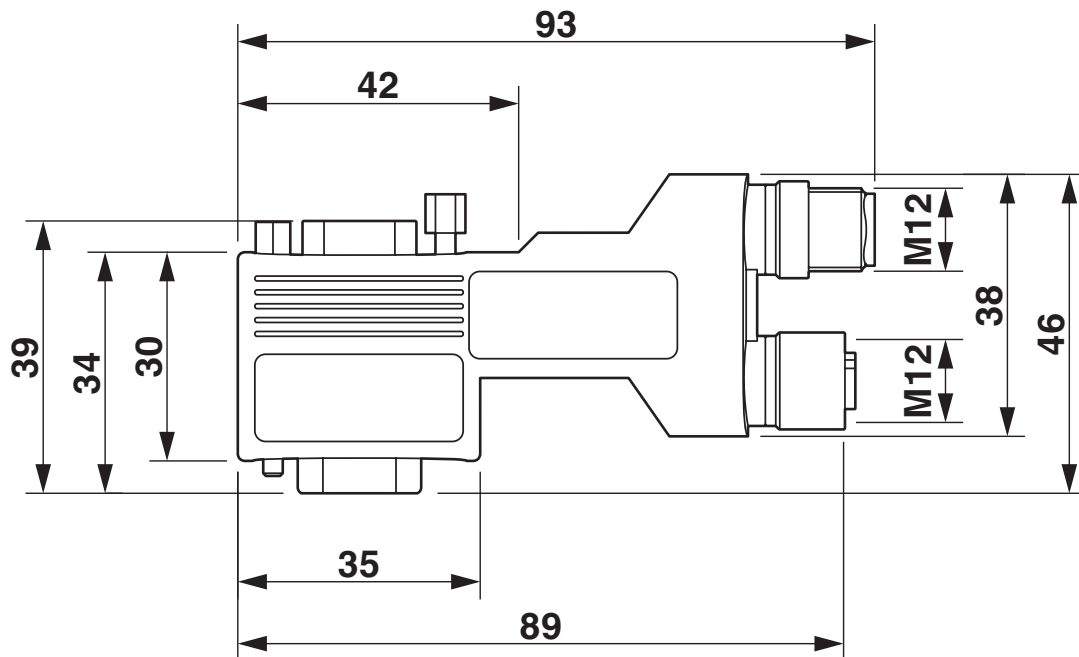


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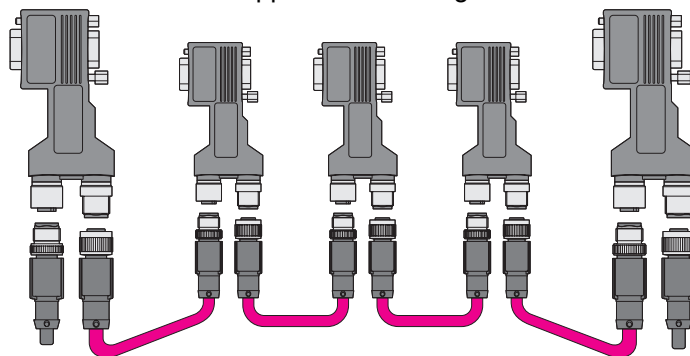
Drawings

Dimensional drawing



SUBCON-PLUS...90X...M12 dimensional drawing, long 90° version

Application drawing



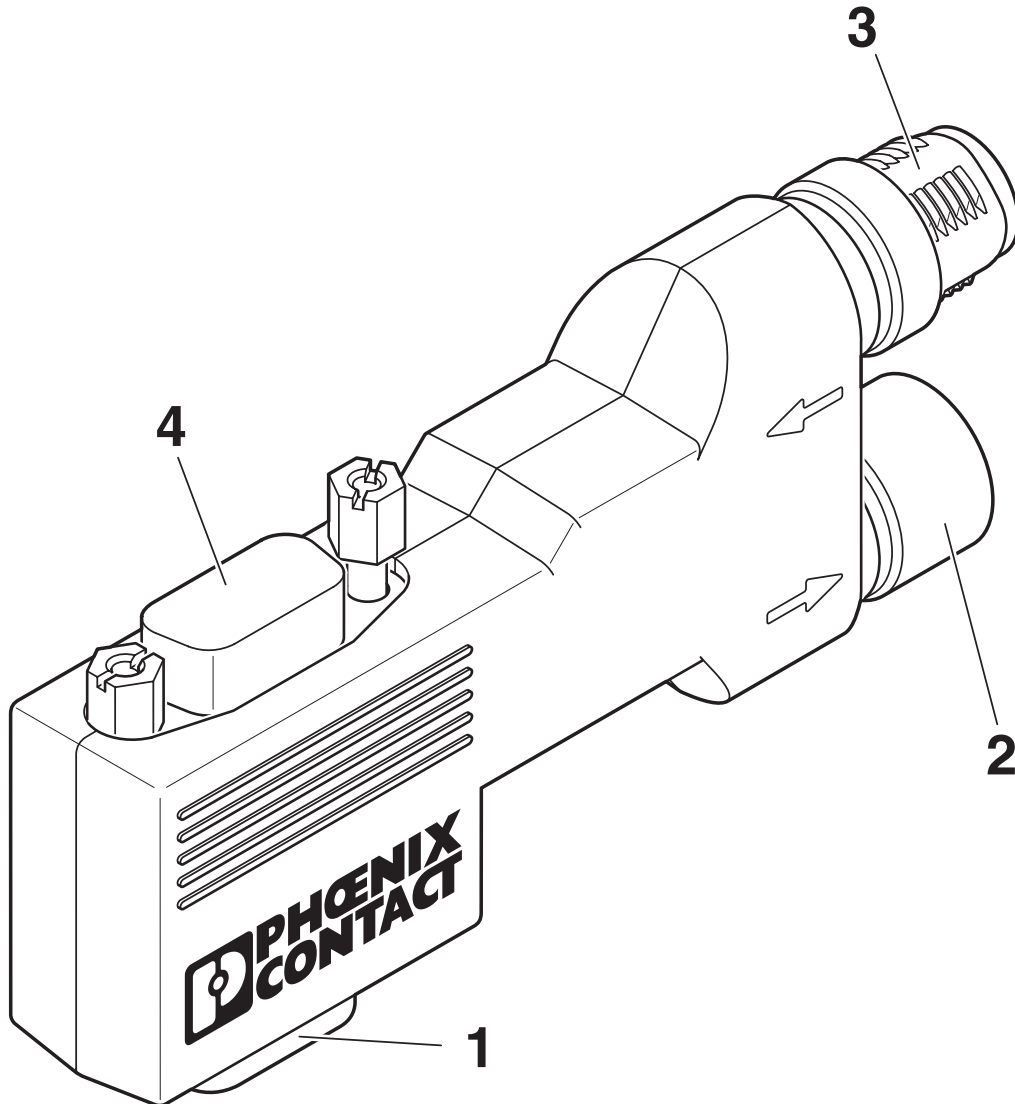
Bus/Line structure

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Schematic diagram



Function elements

1 = D-SUB 9

2 = Outgoing M12 connection

3 = Incoming M12 connection

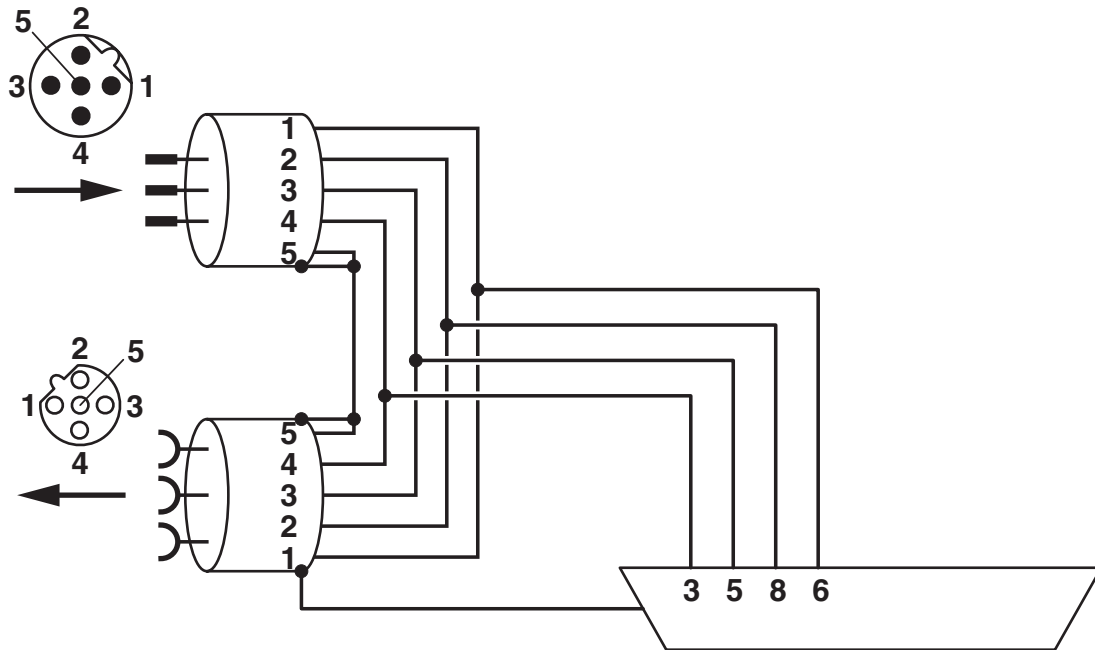
4 = D-SUB PG connection (depending on the version)

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Block diagram



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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902729>



cULus Recognized
Approval ID: E238705

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440302 |
| ECLASS-15.0 | 27440322 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001132 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

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.) | Lead(CAS: 7439-92-1) |
| SCIP | 4d0acd31-6620-4ebc-a7d0-948e08b19b11 |

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