

# D-SUB bus connector - SUBCON-PLUS-PROFIB/90/ M12 - 2902318

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

## 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
- Termination using M12 termination resistor
- Adapter between IP20 and IP67 environments
- Through-contacted shielding from M12 to D-SUB



## Key commercial data

package_quantity	1
GTIN	4046356654975

## Technical data

### Dimensions

Width	16 mm
Height	40 mm
Length	71 mm

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-20 °C ... 80 °C
Permissible humidity (operation)	10 % ... 75 % (At +25°C, non-condensing)
Altitude	5000 m (For restrictions see manufacturer's declaration)

### General

Bus system	PROFIBUS DP
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## Technical data

### General

<b>Signal</b>	PROFIBUS
<b>SUBCON fixing screws</b>	4-40 UNC
<b>Tightening torque</b>	0.4 Nm
<b>Housing material</b>	Polyamide
<b>Pin assignment</b>	3, 5, 6, 8
<b>MTTF</b>	6706 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))
<b>MTTF</b>	1817 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day))
<b>MTTF</b>	155 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))

### Connection data

<b>Connection</b>	D-SUB connection
<b>Number of positions</b>	9
<b>Connection method</b>	D-SUB connector
<b>Termination resistor</b>	separately via M12 termination resistor
<b>Connection</b>	M12 plug
<b>Number of positions</b>	5
<b>Connection method</b>	M12 connector, B-coded
<b>Torque</b>	0.4 Nm
<b>Connection</b>	M12 socket
<b>Number of positions</b>	5
<b>Connection method</b>	M12 connector, B-coded
<b>Torque</b>	0.4 Nm

### Environmental Product Compliance

<b>China RoHS</b>	Environmentally friendly use period: unlimited = EFUP-e
<b>China RoHS</b>	No hazardous substances above threshold values

## Classifications

### eCl@ss

<b>eCl@ss 4.0</b>	272607xx
<b>eCl@ss 4.1</b>	27260701
<b>eCl@ss 5.0</b>	27143424
<b>eCl@ss 5.1</b>	27143424
<b>eCl@ss 6.0</b>	27143424
<b>eCl@ss 7.0</b>	27440209
<b>eCl@ss 8.0</b>	27440302
<b>eCl@ss 9.0</b>	27440302

### ETIM

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## Classifications

### ETIM

ETIM 3.0	EC001132
ETIM 4.0	EC001132
ETIM 5.0	EC001132
ETIM 6.0	EC001132

### UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121522

## Accessories

### Terminal resistor

SAC-5P-M12MS PB TR - 1507803



SAC-5P-M12FS PB TR - 1403911



PSI-TERMINATOR-PB-TBUS - 2702636



### Data plug

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### Accessories

SUBCON-PLUS-PROFIB/90/PG/M12 - 2902317



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### Data cable preassembled

SAC-2P-MSB/ 0,3-910/FSB SCO - 1518106



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SAC-2P-MSB/ 1,0-910/FSB SCO - 1518122



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SAC-2P-MSB/ 5,0-910/FSB SCO - 1518148



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SAC-2P-MSB-FSB SCO/910/... - 1538092



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## Accessories

SAC-2P-FSB SCO/910/... - 1538076



SAC-2P-MSB/ 2,0-910 SCO - 1518025

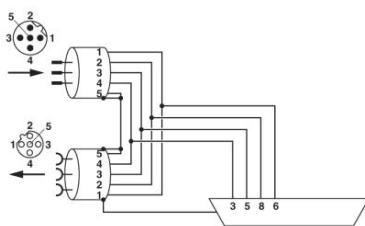


SAC-2P-FRB SCO/910/... - 1433249



## Drawings

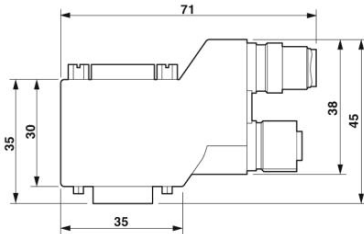
### Block diagram



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

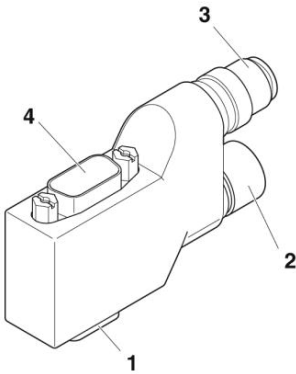
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### Dimensional drawing



SUBCON-PLUS...90...M12 dimensional drawing, short 90° version

### 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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