

SACC-DSI-MS-12CON-M12 SCO SH - Device  
connector rear mounting



1437106  
<https://www.phoenixcontact.com/us/products/1437106>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector rear mounting, 12-position, Pin, straight, M12-SPEEDCON, coding: A, Rear mounting, M12 x 1, Solder pins, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239645

Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- SPEEDCON fast locking system reduces cabling times
- For high transmission reliability: optional shield connection to the housing by means of shield contact

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1437106             |
| Packing unit                         | 20 pc               |
| Minimum order quantity               | 20 pc               |
| Sales key                            | AB26                |
| Product key                          | ABQEGA              |
| Catalog page                         | Page 249 (C-2-2013) |
| GTIN                                 | 4046356449618       |
| Weight per piece (including packing) | 9.505 g             |
| Weight per piece (excluding packing) | 9.505 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting



1437106

<https://www.phoenixcontact.com/us/products/1437106>

## Technical data

### Notes

|                    |                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Order information: | Lock nut is included in the scope of delivery                                                                                                                                                                                                                                                                                                      |

### Mounting

|               |                                     |
|---------------|-------------------------------------|
| Mounting type | Rear mounting M12 x 1 With flat nut |
| Assembly note | With flat nut                       |

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Number of positions | 12                                |
| Shielded            | yes                               |
| Coding              | A                                 |
| Thread type         | M12                               |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Dimensions

|                          |      |
|--------------------------|------|
| Length of the solder pin | 6 mm |
|                          | 6 mm |

### Material specifications

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | NBR                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA 6.6                       |
| Material for screw connection          | Zinc die-cast, nickel-plated |

### Electrical properties

|                       |          |
|-----------------------|----------|
| Rated surge voltage   | 0.8 kV   |
| Contact resistance    | ≤ 3 mΩ   |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 30 V     |
| Nominal current $I_N$ | 1.5 A    |

# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting



1437106

<https://www.phoenixcontact.com/us/products/1437106>

## Connection data

### Conductor connection

|                         |                                   |
|-------------------------|-----------------------------------|
| Connection method       | Solder pins                       |
| Contact connection type | Pin                               |
| Tightening torque       | 3 Nm ... 4 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Pin      |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Head locking type | SPEEDCON |
| Coding            | A        |

## Cable/line

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation)    |
|                                 | -25 °C ... 85 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Degree of protection            | IP67 (When plugged in)                          |
|                                 | IP65 (When plugged in)                          |
|                                 | IP65/IP67                                       |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket)                |
|                                 | -40 °C ... 85 °C (without mechanical actuation) |
|                                 | -25 °C ... 85 °C (Cable, flexible installation) |
|                                 | -40 °C ... 85 °C (cable, fixed installation)    |

## Standards and regulations

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

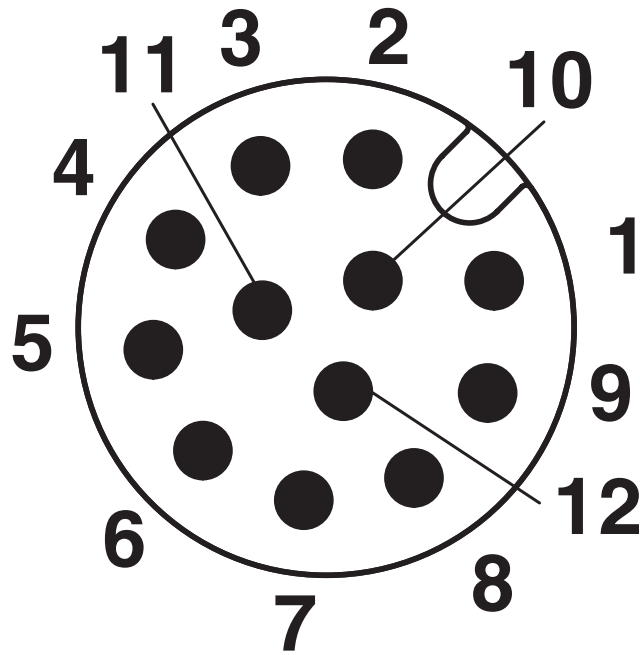
# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting

1437106

<https://www.phoenixcontact.com/us/products/1437106>

## Drawings

Schematic diagram



Pin assignment M12 male connector, 12-pos., male side view

1437106  
<https://www.phoenixcontact.com/us/products/1437106>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1437106>

|                                                                                   |                               |                                |                                |                               |
|-----------------------------------------------------------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
|  | <b>UL Recognized</b>          |                                |                                |                               |
|                                                                                   | Approval ID: E118976-20100522 |                                |                                |                               |
|                                                                                   |                               | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG             |
|                                                                                   |                               | 30 V                           | 1.5 A                          | 26 - 26                       |
|                                                                                   |                               |                                |                                | Cross section mm <sup>2</sup> |
|                                                                                   |                               |                                |                                | -                             |

|                                                                                   |                               |                                |                                |                               |
|-----------------------------------------------------------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
|  | <b>cULus Recognized</b>       |                                |                                |                               |
|                                                                                   | Approval ID: E221474-20140616 |                                |                                |                               |
|                                                                                   |                               | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG             |
|                                                                                   |                               | 30 V                           | 1.5 A                          | 26 - 26                       |
|                                                                                   |                               |                                |                                | Cross section mm <sup>2</sup> |
|                                                                                   |                               |                                |                                | -                             |

# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting



1437106  
<https://www.phoenixcontact.com/us/products/1437106>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

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

# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting



1437106

<https://www.phoenixcontact.com/us/products/1437106>

## 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                                | 36d1a094-e9d3-45d4-b749-40591752cbb0 |

# SACC-DSI-MS-12CON-M12 SCO SH - Device connector rear mounting



1437106

<https://www.phoenixcontact.com/us/products/1437106>

## Accessories

### PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/us/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

### PROT-M12 FS-M - Sealing cap

1430488

<https://www.phoenixcontact.com/us/products/1430488>



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)