

# SACC-MINFS-5CON-PG13 - Connector



1521397

<https://www.phoenixcontact.com/us/products/1521397>

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Connector, Universal, 5-position, Socket straight 7/8"-16UNF, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg13,5, external cable diameter 10 mm ... 12 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors

## Commercial data

|                                      |                    |
|--------------------------------------|--------------------|
| Item number                          | 1521397            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales key                            | BF30               |
| Product key                          | BF2FAA             |
| Catalog page                         | Page 25 (C-2-2017) |
| GTIN                                 | 4017918949617      |
| Weight per piece (including packing) | 56.6 g             |
| Weight per piece (excluding packing) | 56.6 g             |
| Customs tariff number                | 85366990           |
| Country of origin                    | DE                 |

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## Technical data

### Notes

Assembly note

**NOTE:** Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.

### Mounting

Assembly note

The wires can be connected both with ferrules and without ferrules

### Product properties

|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Sensor type          | Universal                       |
| Number of positions  | 5                               |
| No. of cable outlets | 1                               |
| Shielded             | no                              |
| Coding               | A                               |
| Cable outlet         | straight                        |
| Pg screw connection  | Pg13,5                          |

### Insulation characteristics

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

### Dimensions

Dimensional drawing



Length

84 mm

### External dimensions

|                  |                 |
|------------------|-----------------|
| Outside diameter | 10 mm ... 12 mm |
|------------------|-----------------|

### Housing

|                  |       |
|------------------|-------|
| Diameter housing | 27 mm |
|------------------|-------|

### Material specifications

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | HB                           |
| Material of grip body                  | PBT                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PUR/PA 6.6                   |
| Material for screw connection          | Zinc die-cast, nickel-plated |

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## Connection data

### Conductor connection

|                                         |                                                                |
|-----------------------------------------|----------------------------------------------------------------|
| Connection method                       | Screw connection                                               |
| Connection cross section                | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (without ferrule) |
|                                         | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)    |
|                                         | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (solid)           |
| Connection cross section AWG            | 22 ... 16 (without ferrule)                                    |
|                                         | 22 ... 16 (with ferrule)                                       |
| Stripping length of the individual wire | 7 mm                                                           |
| Tightening torque                       | 0.8 Nm (7/8" connectors)                                       |
|                                         | 0.4 Nm (Screw terminal blocks)                                 |
|                                         | 1 Nm ... 1.4 Nm (Pressure screw)                               |

## Electrical properties

|                                |          |
|--------------------------------|----------|
| Rated surge voltage            | 4 kV     |
| Contact resistance             | ≤ 5 mΩ   |
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 300 V AC |
|                                | 300 V DC |
| Nominal current I <sub>N</sub> | 9 A      |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |            |
|-------------------|------------|
| Head design       | Socket     |
| Head cable outlet | straight   |
| Head thread type  | 7/8"-16UNF |
| Coding            | A          |

## Cable/line

|                                         |           |
|-----------------------------------------|-----------|
| Signal type/category                    | Universal |
| Stripping length of the individual wire | 7 mm      |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | IP67                             |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |

# SACC-MINFS-5CON-PG13 - Connector

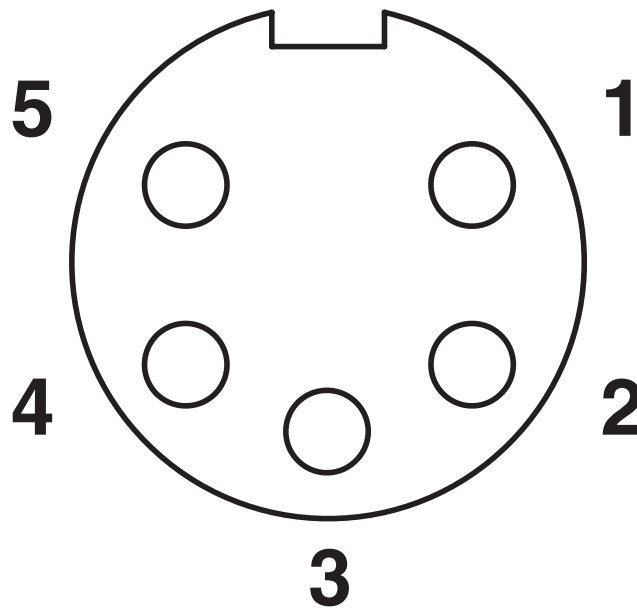


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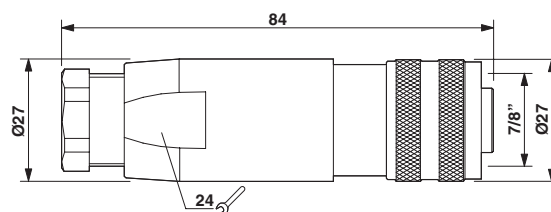
## Drawings

Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

Dimensional drawing



Socket 7/8"-16UNF, straight, Pg13

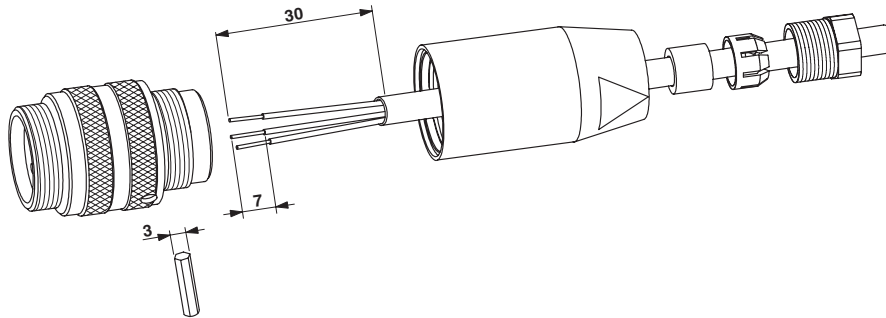
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Functional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1521397>

|                                                                                                                                       |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|                                                                                                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                       | 600 V                 | 9 A                   | -                 | -                           |

|                                                                                                                                      |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                      | 600 V                 | 9 A                   | -                 | -                           |

|                                                                                                                                    |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC</b><br>Approval ID: RU C-DE.AI30.B.01102 |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00511 |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

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

### ETIM

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

### 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-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                                    | 1f75efab-59d4-4e9a-8c46-de58ddf0d219                                                                                                                                                                                              |

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## Accessories

### PROT-MINMS-PA-CHAIN - Screw plug

1430925

<https://www.phoenixcontact.com/us/products/1430925>

7/8" sealing cap made of plastic with fixing band, for sensor cables, for 7/8" sockets



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### TSD 08 SAC - Torque screwdriver

1212597

<https://www.phoenixcontact.com/us/products/1212597>

Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip



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## TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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## SAC BIT MIN-D25 - Tool

1212512

<https://www.phoenixcontact.com/us/products/1212512>

Nut for assembling 7/8" connectors with a knurl diameter of 25 mm, with 4 mm hexagonal drive



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