

# CA-09S1N8A2S00 - Device connector front mounting



1619971

<https://www.phoenixcontact.com/us/products/1619971>

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The figure shows the 6-pos.  
product version

M23, Device connector front mounting, application: Signal, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, Flat gasket, flange dimensions: 25 mm x 25 mm, coding: N. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives. Alternative products: 1629091

## Your advantages

- Safe use in the field, thanks to high degree of protection
- Connector for flexible on-site assembly
- Consistent EMC protection for reliable transmission of signals
- Crimping connection: vibration- and temperature-resistant assembly

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1619971       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAEL        |
| GTIN                                 | 4046356820110 |
| Weight per piece (including packing) | 26.9 g        |
| Weight per piece (excluding packing) | 20.269 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Order information: | Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
|--------------------|--|

### Product properties

|              |                                   |
|--------------|-----------------------------------|
| Product type | Circular connectors (device side) |
|--------------|-----------------------------------|

### Connector

#### Insulating body

|   |   |
|---|---|
| Note  | Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
| Coding  | N   |
| Material (Insulating body)                      | PA 6.6  |
| Connection method                               | Crimp connection  |
| Contact switching type                          | Socket  |
| Application                                     | Signal  |
| Number of positions                             | 9   |
| Direction of rotation                           | Standard  |
| Connection profile                              | 8+1   |
| Number (Contact group 1)                        | 1   |
| Contact diameter (Contact group 1)              | 2 mm  |
| Litz wires Min. cross section (Contact group 1) | 1 mm <sup>2</sup>   |
| Litz wires Max. cross section (Contact group 1) | 2.5 mm <sup>2</sup>   |
| Rated current Contact (Contact group 1)         | 20 A (for max. connection cross section)                                  |
| Rated voltage Contact (Contact group 1)         | 48 V AC   |
|   | 74 V DC   |
| Rated surge voltage                             | 1.5 kV  |
| Overvoltage category                            | III   |
| Degree of pollution                             | 3   |
| Number (Contact group 2)                        | 8   |
| Contact diameter (Contact group 2)              | 1 mm  |
| Litz wires Max. cross section (Contact group 2) | 1 mm <sup>2</sup>   |
| Rated current Contact (Contact group 2)         | 8 A   |

#### Housing

|                     |  |
|---------------------|--|
| Type                | Flange housing                             |
| Thread type         | M23  |
| Design              | straight                                   |
| Type of locking     | for standard and SPEEDCON interlock        |
| Pg screw connection | none                                       |
| Mounting type       | Front mounting/square flange (4x Ø 3.2 mm) |
| Flange dimensions   | 25 mm x 25 mm                              |
| Material (Housing)  | GD-Zn                                      |

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|                                   |             |
|-----------------------------------|-------------|
| Degree of protection (plugged in) | IP67        |
| Seal for the device               | Flat gasket |

## Environmental and real-life conditions

### Ambient conditions

|  |                   |
|--|-------------------|
| Ambient temperature (operation)          | -40 °C ... 125 °C |
| Permissible humidity (storage/transport) | 50 % ... 65 %     |

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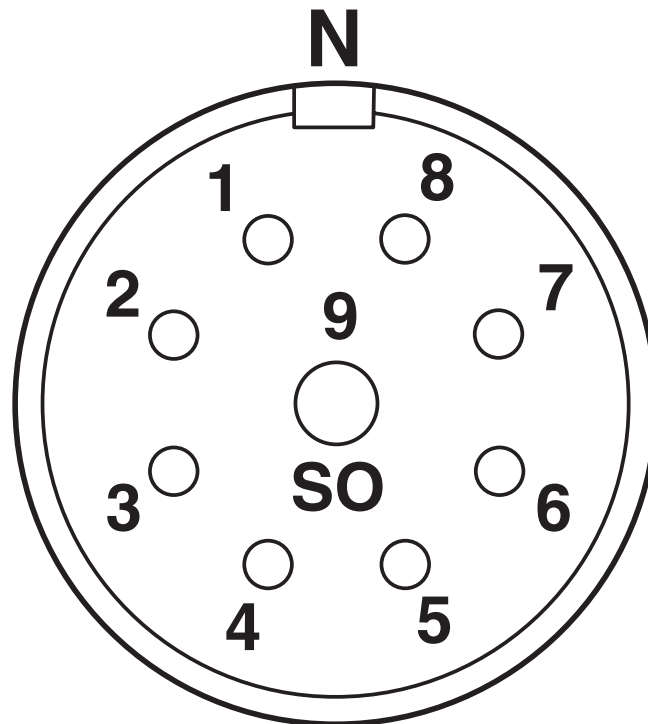


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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1619971>

|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
| Power  | 48 V                  | 12 A                  | 14                | -                           |
| Signal   | 48 V                  | 4 A                   | 20                | -                           |

|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
| Power   | 48 V                  | 20 A                  | 14                | -                           |
| Signal  | 48 V                  | 6 A                   | 20                | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003569 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

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

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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