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## Bus system connector - SACC-M12MRB-5CON-PG 9-SH - 1430417

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Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug angled M12, B-coded, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

### Why buy this product

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Screw connection: proven connection technology for a large selection of different conductors
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 321495 |
| GTIN         | 4046356321495   |

### Technical data

#### Dimensions

|   |               |
|---|---------------|
| Diameter housing                        | 20 mm         |
| Length                                  | 41.8 mm       |
| External cable diameter                 | 6 mm ... 8 mm |
| Stripping length of the sheath          | 40 mm         |
| Stripping length of the individual wire | 5 mm          |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP67                             |

#### General

|                       |         |
|-----------------------|---------|
| Rated current at 40°C | 4 A     |
| Rated voltage         | 60 V DC |

# Bus system connector - SACC-M12MRB-5CON-PG 9-SH - 1430417

## Technical data

### General

|                             |   |
|-----------------------------|---|
|                             | 48 V AC   |
| Number of positions         | 5   |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$  |
| Coding                      | B-coded   |
| Standards/regulations       | M12 connector IEC 61076-2-101                                       |
| Signal type/category        | PROFIBUS  |
|                             | INTERBUS  |
| Status display              | No  |
| Overvoltage category        | II  |
| Degree of pollution         | 3   |
| Connection method           | Screw connection  |
| Conductor cross section     | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (without ferrule)     |
|                             | 0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (with ferrule)        |
|                             | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (solid)               |
| Conductor cross section AWG | 24 ... 18 (without ferrule)   |
|                             | 26 ... 20 (with ferrule)  |
| Insertion/withdrawal cycles | $\geq 100$  |
| Torque                      | 0.4 Nm (M12 knurl)  |
|                             | 0.2 Nm (Screw terminal blocks)                                      |
|                             | 0.8 Nm ... 1 Nm (Pressure nut with coupling sleeve)                 |
| Tightening torque           | Screw plug insert with sleeve housing as far it will go             |
| Assembly instructions       | The connector pin assignment can be rotated 90° to the cable outlet |
|                             | The wires can be connected both with ferrules and without ferrules  |

### Material

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | HB                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material of grip body                  | Zinc die-cast, nickel-plated |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR                          |

### Cable

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

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Connection in acc. with standard       | CUL             |
| Flammability rating according to UL 94 | HB              |

### Environmental Product Compliance

Bus system connector - SACC-M12MRB-5CON-PG 9-SH - 1430417

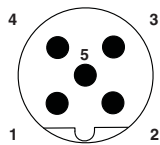
Technical data

Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

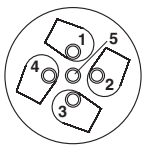
Drawings

Schematic diagram



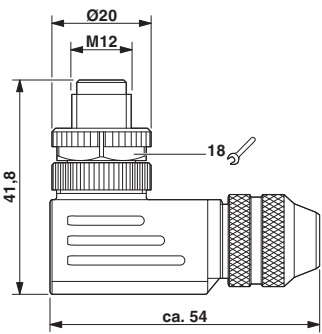
Pin assignment M12 socket, 5-pos., B-coded, female side

Schematic diagram



Cable connection side M12 (screw connection)

Dimensional drawing



M12 x 1 male plug, angled, shielded

Approvals

Approvals

Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals


Approval details




## Bus system connector - SACC-M12MRB-5CON-PG 9-SH - 1430417

### Approvals

|     |   |               |
|-----|---|---------------|
| EAC |  | EAC-Zulassung |
|-----|---|---------------|

|                    |   |   |               |
|--------------------|---|---|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                    |   |   |               |
| Nominal voltage UN |   | 125 V   |               |
| Nominal current IN |   | 4 A   |               |

|                    |   |   |               |
|--------------------|---|---|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                    |   |   |               |
| Nominal voltage UN |   | 125 V   |               |
| Nominal current IN |   | 4 A   |               |

|                  |   |   |
|------------------|---|---|
| cULus Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
|------------------|---|---|

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