

## Flush-type connector - SACC-CI-M12MSB- 5CON-SH TOR 32 - 1457542

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Sensor/actuator flush-type plug, 5-pos., B-coded, with straight THR solder connection, only contact insert

### Your advantages

- ✓ Reduced mounting costs thanks to two-piece device connector
- ✓ Packaging available for automated pick and place assembly
- ✓ All common pin assignments and codings available
- ✓ Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- ✓ Additional gasket for the device when not plugged in

**RoHS**

### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 100 pc                                                                                                  |
| Minimum order quantity | 100 pc                                                                                                  |
| GTIN                   | <br>4 046356 617291 |
| GTIN                   | 4046356617291                                                                                           |

### Technical data

#### Ambient conditions

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C                                |
|                                 | -40 °C ... 85 °C (without mechanical actuation) |
| Degree of protection            | IP67 (correctly plugged in and locked)          |

#### General

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

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## Technical data

### General

|                             |                                   |
|-----------------------------|-----------------------------------|
| Rated surge voltage         | 1.5 kV                            |
| Number of positions         | 5                                 |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$        |
| Coding                      | B - inverse                       |
| Standards/regulations       | M12 connector IEC 61076-2-101     |
| Overvoltage category        | II                                |
| Degree of pollution         | 3                                 |
| Connection method           | THR solder connection             |
| Insertion/withdrawal cycles | > 100                             |
| Torque                      | 3 Nm ... 4 Nm (Installation-side) |
| Mounting type               | PCB mounting                      |
| Type of packaging           | Belt                              |
| Delivery state              | with assembly pad                 |

### Material

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | V0    |
| Contact material                       | CuZn  |
| Contact surface material               | Ni/Au |
| Contact carrier material               | PA    |
| Sealing material                       | FKM   |

### Cable

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

### Standards and Regulations

|                                        |                               |
|----------------------------------------|-------------------------------|
| Standards/specifications               | M12 connector IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0                            |

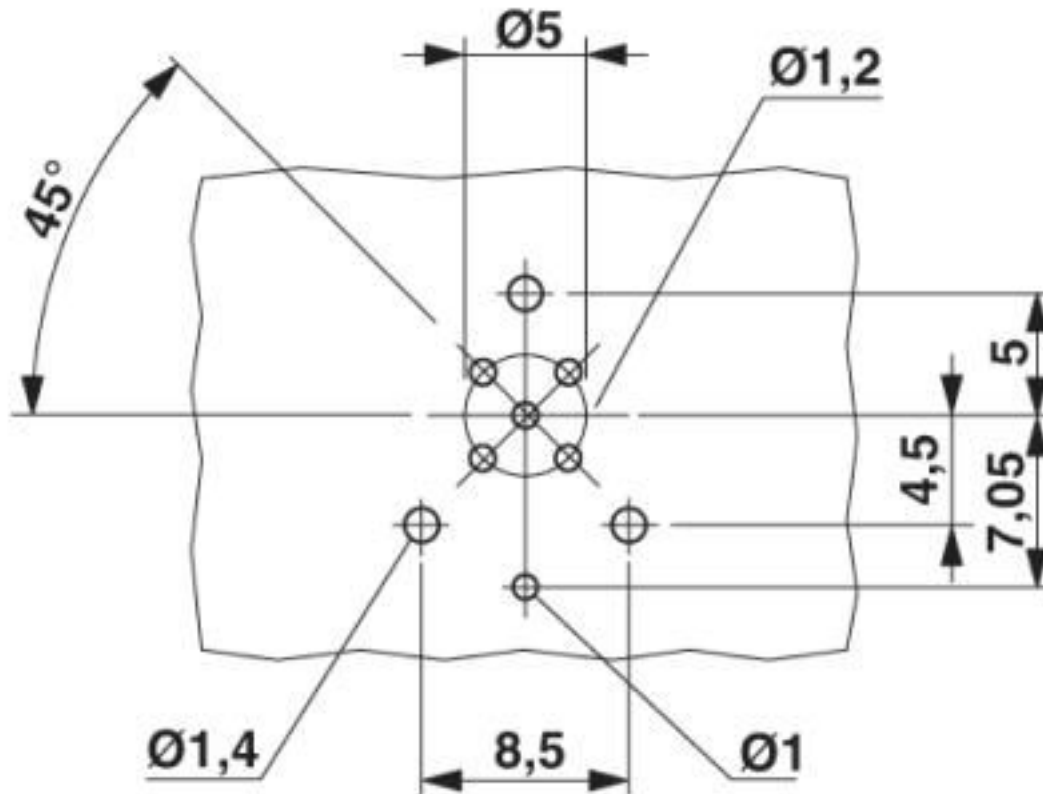
### Environmental Product Compliance

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

## Drawings

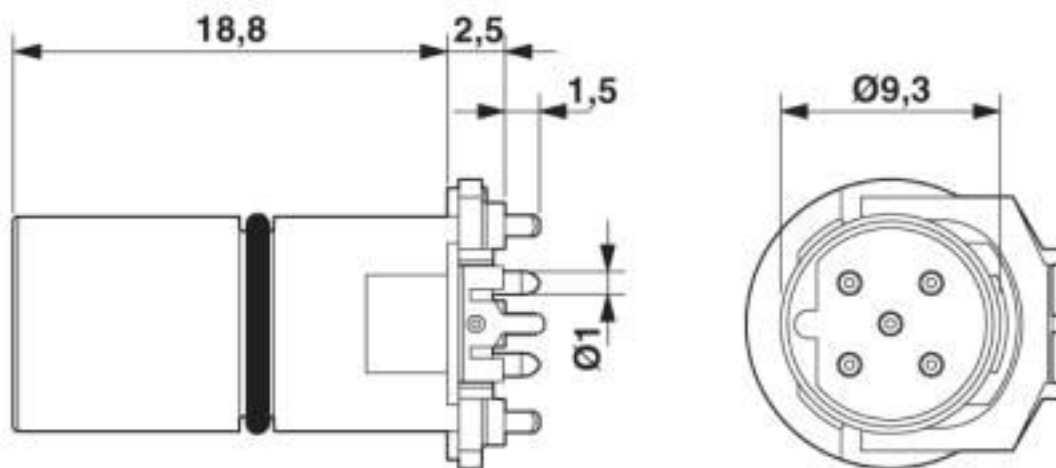
## Flush-type connector - SACC-CI-M12MSB- 5CON-SH TOR 32 - 1457542

Drilling diagram



Drilling diagram

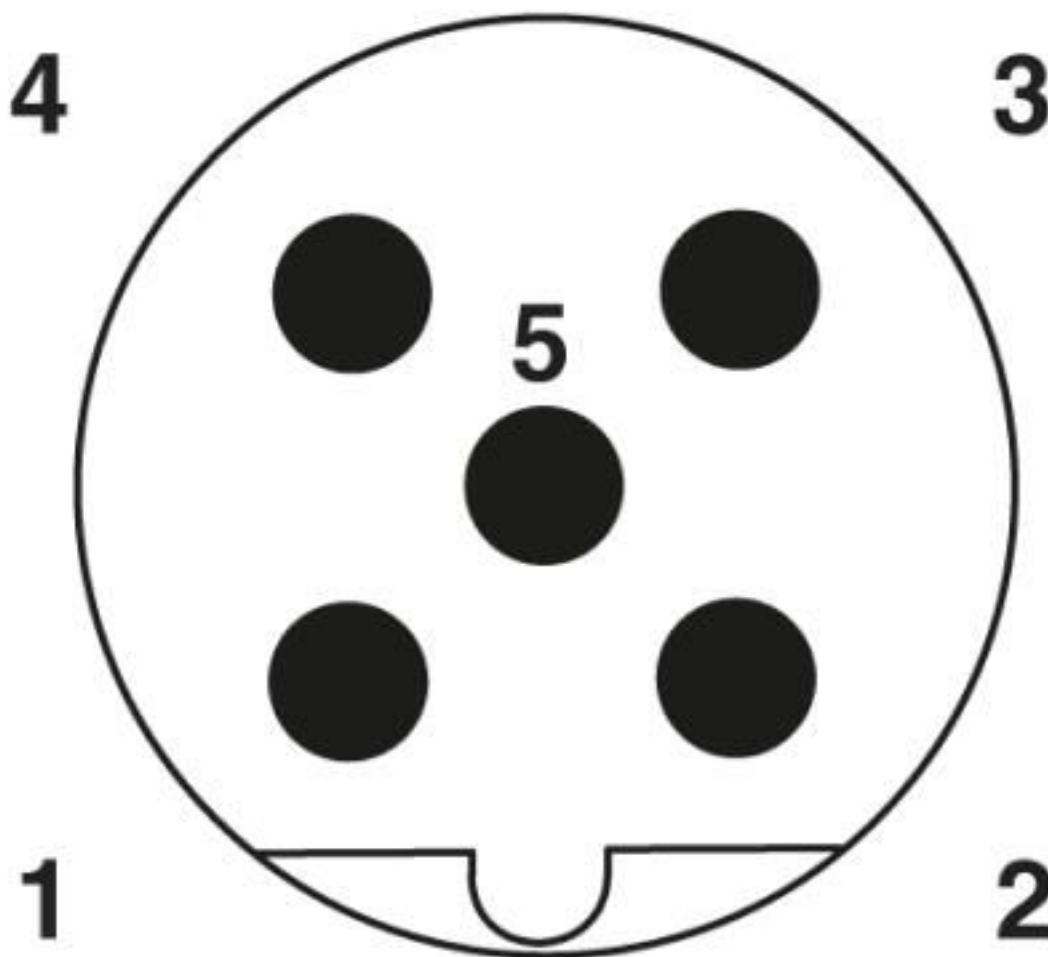
Dimensional drawing



M12 male connector contact carrier

## Flush-type connector - SACC-CI-M12MSB- 5CON-SH TOR 32 - 1457542

Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440103 |
| eCl@ss 8.0    | 27440103 |
| eCl@ss 9.0    | 27440102 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 39121413 |
| UNSPSC 18.0   | 39121413 |
| UNSPSC 19.0   | 39121413 |
| UNSPSC 20.0   | 39121413 |
| UNSPSC 21.0   | 39121413 |

## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 118976 |
| Nominal voltage UN | 60 V                                                                                |                                                                                                                                                       |               |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 22                                                                                  |                                                                                                                                                       |               |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 118976 |
| Nominal voltage UN | 60 V                                                                                |                                                                                                                                                       |               |

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### Approvals

|                                |     |
|--------------------------------|-----|
|                                |     |
| Nominal current I <sub>N</sub> | 4 A |
| mm <sup>2</sup> /AWG/kcmil     | 22  |

|     |                                                                                   |         |
|-----|-----------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-----------------------------------------------------------------------------------|---------|

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-----------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Contact insert

Sample set - SACC-CIM12MSB5PL180THRSAMPLE - 1413552



Sensor/actuator flush-type plug, 5-pos., B-coded, with straight THR solder connection, only contact insert

#### Panel mounting base

Housing screw connection - SACC-M12-SCO PLUG - 1551493



M12 SPEEDCON housing screw connection for M12 male inserts, with O-ring, for all SPEEDCON-capable THR and wave soldering contact carriers

Housing screw connection - SACC-DSIV-M12-PLUG - 1416145



Housing screw connection with M12 standard thread, with O-ring, for the two-piece straight M12 THR contact carrier and for the two-piece angled M12 contact carrier

## Flush-type connector - SACC-CI-M12MSB- 5CON-SH TOR 32 - 1457542

### Accessories

Housing screw connection - SACC-M12-SCO PLUG L90 - 1436709



M12-SPEEDCON housing screw connection for M12 male inserts, with flat gasket, for all Speedcon-compatible THR and wave soldering contact carriers

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Housing screw connection - SACC-BP-M-M12/M15-6-THR - 1413997



Housing screw connection, Plug, M12, Rear mounting, M15 x 1

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Housing screw connection - SACC-BP-M-M12/M15-7-THR - 1413996



Housing screw connection, Plug, M12, Rear mounting, M15 x 1

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Housing screw connection - SACC-BP-M-M12/M15-6-THR SCO - 1413999



M12 SPEEDCON housing screw connection for M12 male inserts, with O-ring, for all SPEEDCON-capable THR and wave soldering contact carriers

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Housing screw connection - SACC-BP-M-M12/M15-7-THR SCO - 1413998



Housing screw connection, Plug, M12-SPEEDCON, Rear mounting, M15 x 1

## Flush-type connector - SACC-CI-M12MSB- 5CON-SH TOR 32 - 1457542

### Accessories

Housing screw connection - SACC-M12 PLUG PRESS - 1437892



M12 pin, housing screw connection, press-in version, for all Speedcon-compatible THR and wave soldering contact carriers

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Housing screw connection - SACC-DSIV-M12-PLUG-9 THR - 1417984



M12 pin, front mounting THR with M14 screw fastening

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Housing screw connection - SACC-BP-M-M12-THR PP - 1027661



Housing screw connection, Plug, M12-Push-Pull, Rear mounting, THR- und Wellenlötkontakte

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Housing screw connection - SACC-FP-M-M12-THR PP - 1027679



Housing screw connection, Plug, M12-Push-Pull, Front mounting, THR- und Wellenlötkontakte

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### Protective cap

Sealing cap - PROT-M12 FS - 1560251



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



## Flush-type connector - SACC-CI-M12MSB- 5CON-SH TOR 32 - 1457542

### Accessories

Sealing cap - PROT-M12 FS-M - 1430488



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

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