

# SACB-8/16-M23 180 - Distributor box



1692789

<https://www.phoenixcontact.com/us/products/1692789>

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Distributor box, application: Standard, connection method: M12 socket Plastic, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: No, Universal; master cable connection: M23 plug connection 180°, shielding: no

## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Save space: distributor box with double occupancy for two sensors in one slot

## Commercial data

|                                      |                    |
|--------------------------------------|--------------------|
| Item number                          | 1692789            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales key                            | BF41               |
| Product key                          | BF3CBB             |
| Catalog page                         | Page 114 (PC-2009) |
| GTIN                                 | 4017918177850      |
| Weight per piece (including packing) | 166.7 g            |
| Weight per piece (excluding packing) | 149.4 g            |
| Customs tariff number                | 85366990           |
| Country of origin                    | DE                 |

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## Technical data

### Notes

|                     |  |
|---------------------|--|
| Assembly note       | <b>NOTE:</b> 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. |
| Note on application | Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".   |

### Product properties

|                     |                 |
|---------------------|-----------------|
| Product type        | Distributor box |
| Application         | Standard        |
| Number of positions | 5               |
| Number of slots     | 8               |
| Coding              | A               |
| LED                 | No              |

### Electrical properties

|   |          |
|---|----------|
| Max. operating voltage $U_{\max}$       | 135 V    |
| Nominal voltage $U_N$                   | 120 V AC |
|   | 120 V DC |
| Rated current, total                    | 12 A     |
| Max. current carrying capacity per path | 2 A      |
| Current carrying capacity per slot      | 4 A      |

### Connection data

#### Conductor connection

|  |            |
|--|------------|
| Sensor/actuator connection system            | M12 socket |
| Tightening torque slot sensor/actuator cable | 0.4 Nm     |

#### Pin assignment

|  |                |
|--|----------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 15 |
|  | 1 / 2 (B) = 7  |
|  | 2 / 4 (A) = 5  |
|  | 2 / 2 (B) = 4  |
|  | 3 / 4 (A) = 16 |
|  | 3 / 2 (B) = 8  |
|  | 4 / 4 (A) = 3  |
|  | 4 / 2 (B) = 14 |
|  | 5 / 4 (A) = 17 |
|  | 5 / 2 (B) = 9  |
|  | 6 / 4 (A) = 2  |
|  | 6 / 2 (B) = 13 |

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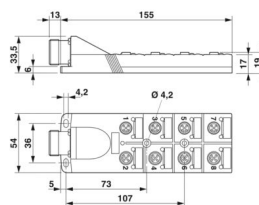
|                        |
|------------------------|
| 7 / 4 (A) = 11         |
| 7 / 2 (B) = 10         |
| 8 / 4 (A) = 1          |
| 8 / 2 (B) = 18         |
| 1-8 / 1 (+ 120 V) = 19 |
| 1-8 / 3 (0 V) = 6      |
| 1-8 / 5 (PE) = 12      |

## Signaling

|                        |    |
|------------------------|----|
| Status display present | No |
|------------------------|----|

## Dimensions

Dimensional drawing



|        |        |
|--------|--------|
| Width  | 54 mm  |
| Height | 34 mm  |
| Length | 155 mm |

## Material specifications

|  |             |
|--|-------------|
| Material Threaded sleeve                                 | PA          |
| Material Housing   | PA          |
| Flammability rating according to UL 94                   | V0          |
| Seal material O-ring                                     | NBR         |
| Contact material   | CuSn        |
| Contact surface material                                 | Ni/Au       |
| Contact carrier material                                 | PA          |
| Material of contact, master cable side                   | CU alloy    |
| Material of the contact carrier on the master cable side | PA          |
| Material of contact surface, master cable side           | gold-plated |

## Cable/line

|                   |                     |
|-------------------|---------------------|
| Connection method | M23 plug connection |
|-------------------|---------------------|

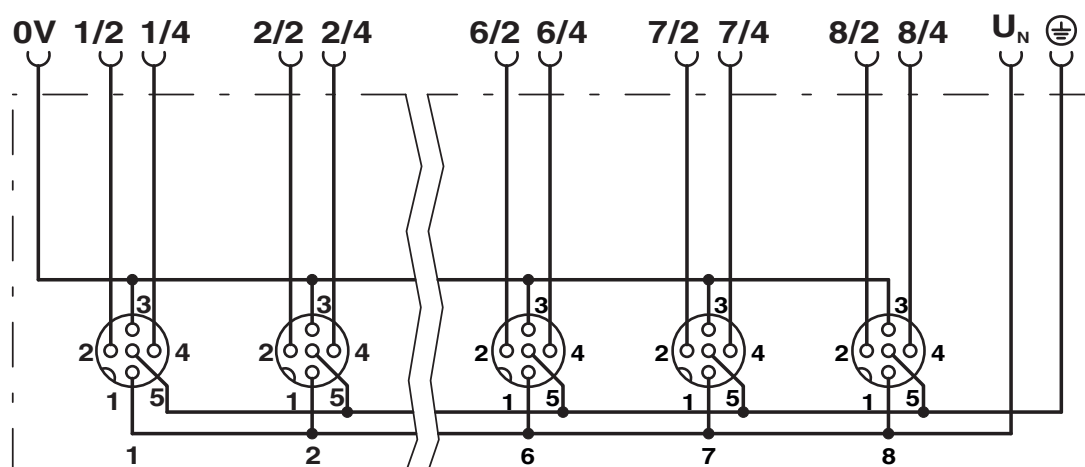
## Environmental and real-life conditions

### Ambient conditions

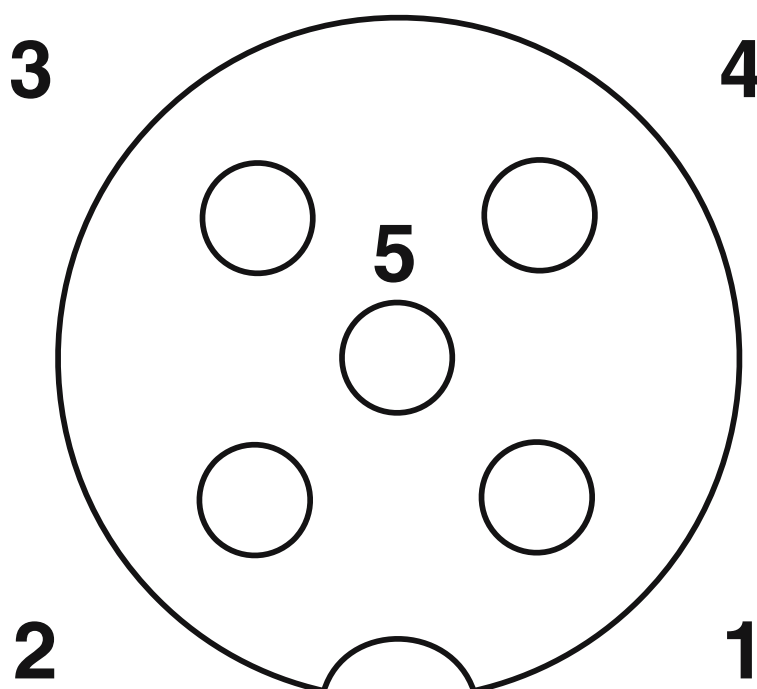
|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP65             |
|                                 | IP67             |
| Ambient temperature (operation) | -20 °C ... 75 °C |



Circuit diagram



Schematic diagram

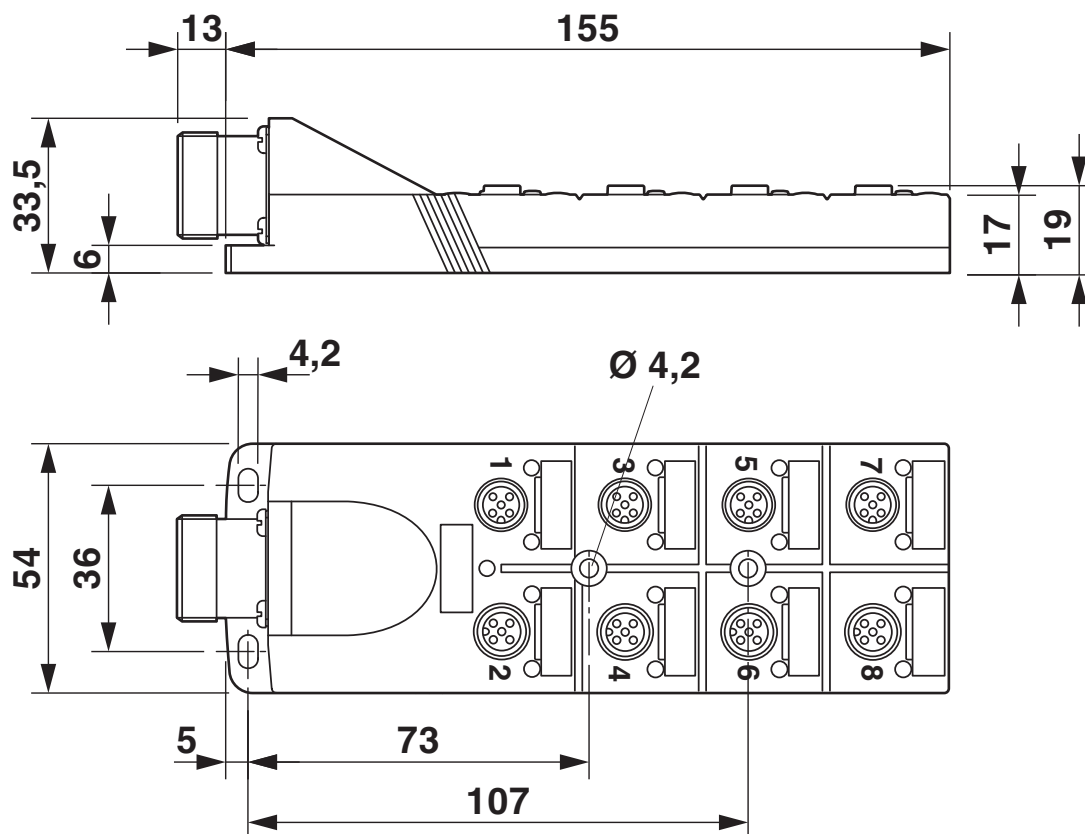


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Dimensional drawing



# SACB-8/16-M23 180 - Distributor box





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1692789>

|   |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 118976 |                       |                       |                   |                             |
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 120 V                 | -                     | 22 - 16           | -                           |

|  |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 118976 |                       |                       |                   |                             |
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 120 V                 | -                     | 22 - 16           | -                           |

|  |  |  |  |  |
|--|--|--|--|--|
|  <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 | 27440111 |
| ECLASS-12.0 | 27440111 |
| ECLASS-13.0 | 27440111 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003558 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|



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## 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                                | 144b24b1-04b1-4e8e-980b-5402e4694059 |

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## Accessories

### RCK-TGUM/BL16+3/ 5,0PUR-U - Master cable

1684056

<https://www.phoenixcontact.com/us/products/1684056>



Master cable, application: Sensor/actuator box, connection method: M23 socket Plastic, number of positions: 19, slot assignment: Double, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 5 m, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260765

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### RCK-TGUM/BL16+3/10,0PUR-U - Master cable

1684069

<https://www.phoenixcontact.com/us/products/1684069>



Master cable, application: Sensor/actuator box Plastic, number of positions: 19, slot assignment: Double, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 10 m, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260764

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## RCK-TWUM/BL16+3/ 5,0PUR-U - Master cable

1684072

<https://www.phoenixcontact.com/us/products/1684072>



Master cable, application: Sensor/actuator box, connection method: M12 socket Plastic, number of positions: 19, slot assignment: Double, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 5 m, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260753

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## RCK-TWUM/BL16+3/10,0PUR-U - Master cable

1684085

<https://www.phoenixcontact.com/us/products/1684085>



Master cable, application: Sensor/actuator box, connection method: M12 socket Plastic, number of positions: 19, slot assignment: Double, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 10 m, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1260752

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## V-RC/TGUM 13/KVD 13/LBL 16+3 - Cable connector

1000042

<https://www.phoenixcontact.com/us/products/1000042>



Cable connector, number of positions: 19, status display: No; master cable connection: M23 screw locking, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237971

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## V-RC/TWUM 13/KVD 13/LBL 16+3 - Cable connector

1000044

<https://www.phoenixcontact.com/us/products/1000044>



Cable connector, number of positions: 19, status display: No; master cable connection: M23 screw locking, shielding: no, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237973

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## PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/us/products/1680539>



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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## MSK 1 - Metal protective cap

1665897

<https://www.phoenixcontact.com/us/products/1665897>



Metal protective cap, degree of protection: IP67, when in locked state, color: silver, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245640

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### MSK 2 - Protective cap

1665907

<https://www.phoenixcontact.com/us/products/1665907>

Protective cap, degree of protection: IP67, when in locked state, color: silver,  
Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.  
1 %) item no.: 1245641



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### KSK 1 - Sealing cap

1685013

<https://www.phoenixcontact.com/us/products/1685013>

Plastic sealing cap, for unoccupied M23 connectors



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<https://www.phoenixcontact.com/us/products/1692789>



## ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

<https://www.phoenixcontact.com/us/products/2809128>



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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## PLUSCON-RCS - Pipe spanner

1665062

<https://www.phoenixcontact.com/us/products/1665062>



Pipe spanner

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<https://www.phoenixcontact.com/us/products/1692789>



## TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/us/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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## SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/us/products/1208432>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive



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## SACC BIT M12-D20 - Tool

1208445

<https://www.phoenixcontact.com/us/products/1208445>

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive



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