

# SACB-4/ 8-SC SCO P - Distributor box



1452932

<https://www.phoenixcontact.com/us/products/1452932>

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Distributor box, application: Standard, connection method: M12-SPEEDCON-socket Plastic, number of slots: 4, number of positions: 5, coding: A, slot assignment: Double, status display: No, Universal; master cable connection: Spring-cage 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
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1452932             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF41                |
| Product key                          | BF3CBC              |
| Catalog page                         | Page 262 (C-2-2019) |
| GTIN                                 | 4046356553551       |
| Weight per piece (including packing) | 158.3 g             |
| Weight per piece (excluding packing) | 155.7 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General             | <p>When connecting the signal lines to the black PCB terminal blocks, please use a 0.4 x 2.0 mm screwdriver.</p> <p>The black PCB terminal blocks only require a minimal amount of operating force.</p> <p>Screwdriver: SZS 0,4X2,0 - 1205202</p> <p>Using larger screwdrivers or excessive force may damage the PCB terminal blocks.</p> <p>When using ferrules, the wires can be inserted straight into the PCB terminal blocks without opening the clamping area.</p> |
| 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     | 4               |
| Coding              | A               |
| LED                 | No              |

### Electrical properties

|                                         |          |
|-----------------------------------------|----------|
| 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-SPEEDCON-socket                         |
| Conductor cross section Flexible signal line       | 0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> |
| Conductor cross section Flexible power supply      | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG Flexible signal line  | 24 ... 20                                   |
| Connection cross section AWG Flexible power supply | 24 ... 16                                   |
| Stripping length Signal line                       | 6 mm                                        |
| Stripping length Power supply                      | 10 mm                                       |
| Stripping length of the sheath                     | 50 mm (Master cable)                        |
| Tightening torque, cover screw                     | 1 Nm                                        |
| Tightening torque slot sensor/actuator cable       | 0.4 Nm                                      |

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|                                                            |        |
|------------------------------------------------------------|--------|
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |
| Tightening torque, union nut                               | 2.5 Nm |

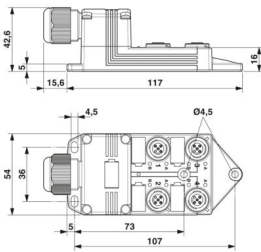
## Pin assignment

|                                          |                        |
|------------------------------------------|------------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH         |
|                                          | 1 / 2 (B) = GYPK       |
|                                          | 2 / 4 (A) = GN         |
|                                          | 2 / 2 (B) = RDBU       |
|                                          | 3 / 4 (A) = YE         |
|                                          | 3 / 2 (B) = WHGN       |
|                                          | 4 / 4 (A) = GY         |
|                                          | 4 / 2 (B) = BNGN       |
|                                          | 1-4 / 1 (+ 120 V) = BN |
|                                          | 1-4 / 3 (0 V) = BU     |
|                                          | 1-4 / 5 (PE) = GNYE    |

## Signaling

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

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 54 mm                                                                                |
| Height              | 42 mm                                                                                |
| Length              | 117 mm                                                                               |

## Material specifications

|                                        |             |
|----------------------------------------|-------------|
| Material Threaded sleeve               | PBT         |
| Material Housing                       | PBT         |
| Material Molding compound              | PUR         |
| Flammability rating according to UL 94 | V0          |
| Seal material O-ring                   | NBR         |
| Contact material                       | Cu alloy    |
| Contact surface material               | gold-plated |
| Contact carrier material               | PA          |

## Cable/line

|                         |                        |
|-------------------------|------------------------|
| External cable diameter | 7 mm ... 12 mm         |
| Connection method       | Spring-cage connection |

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## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP65             |
|                                 | IP67             |
| Ambient temperature (operation) | -25 °C ... 80 °C |

## Standards and regulations

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

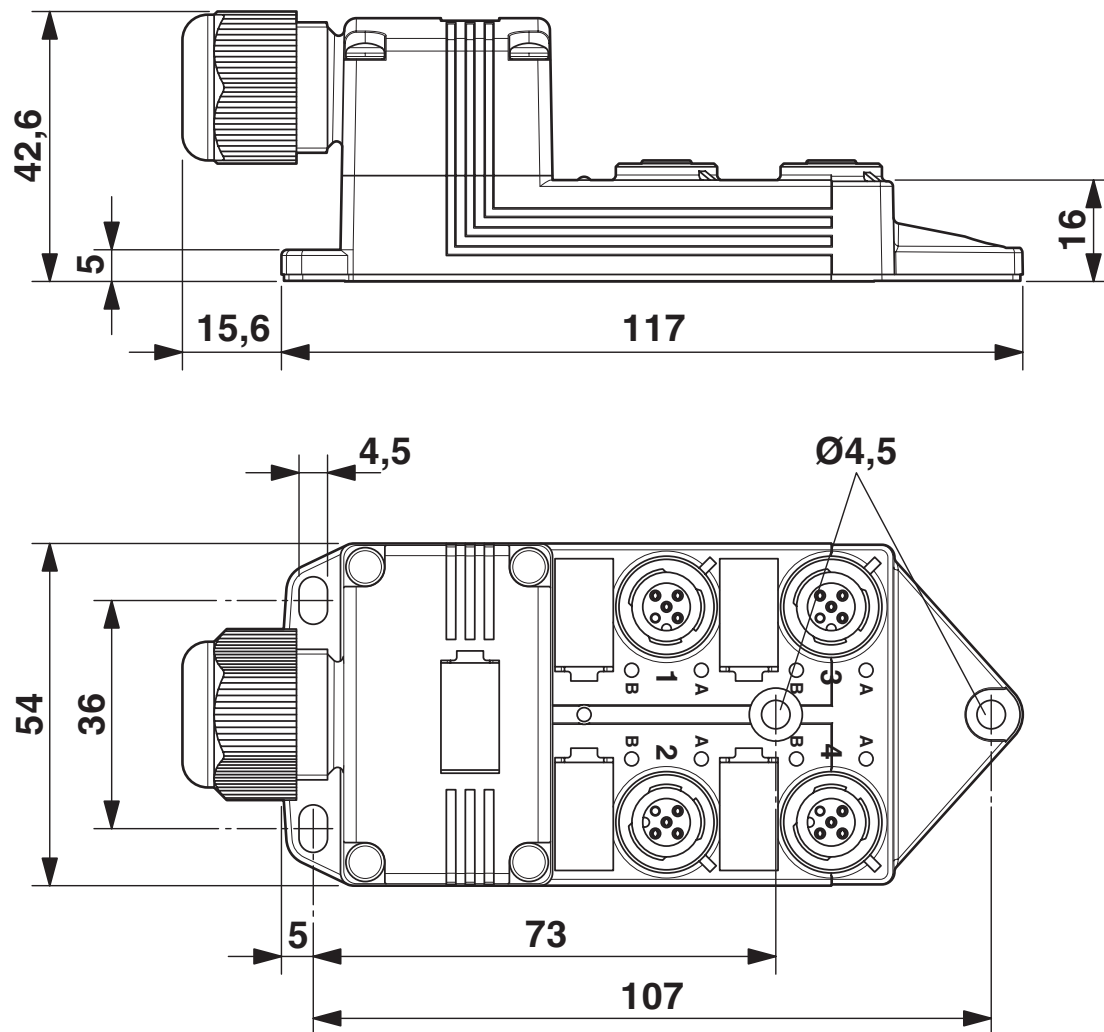
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## Drawings

Dimensional drawing



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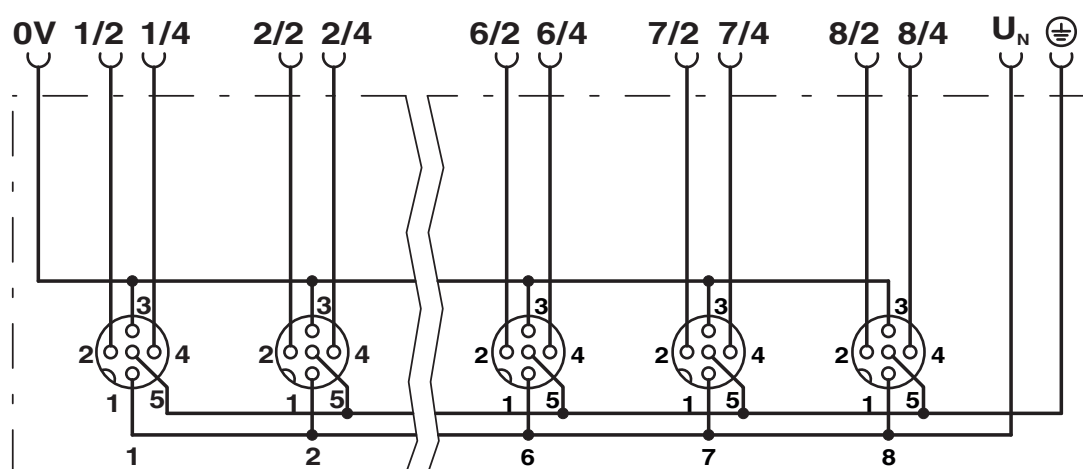


Schematic diagram



M12 slot, socket, 5-pos.

Circuit diagram



# SACB-4/ 8-SC SCO P - Distributor box



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1452932>

|                                                                                                                                       |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <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                 | -                     | -                 | -                           |

|                                                                                                                                      |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <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                 | -                     | -                 | -                           |

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

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

# SACB-4/ 8-SC SCO P - Distributor box



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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, 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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## Accessories

### SACB- 8X0,5/ 3X1,0-50,0 PUR - Master cable ring

1503357

<https://www.phoenixcontact.com/us/products/1503357>



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PVC, 11-pos., 8 x 0.50 mm<sup>2</sup> and 3 x 1.00 mm<sup>2</sup>, length: 50 m

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### SACB-8X0,5/3X1,0-50,0 HPUR - Master cable ring

1401690

<https://www.phoenixcontact.com/us/products/1401690>



Master cable ring, application: Distributor boxes, number of positions: 11, cable length: 50 m

## SACB-4/ 8-SC SCO P - Distributor box

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## PROT-MS SCO - Screw plug

1553129

<https://www.phoenixcontact.com/us/products/1553129>



M12 screw plug with fast-locking system for unoccupied M12 female connectors of sensor/actuator cables, boxes, and flush-type connectors

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## UC-EM (17,5X9) - Snap-in markers

0827490

<https://www.phoenixcontact.com/us/products/0827490>



Snap-in markers, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID, BLUEMARK ID COLOR, BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

# SACB-4/ 8-SC SCO P - Distributor box



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<https://www.phoenixcontact.com/us/products/1452932>

## UC-EM (17,5X9) CUS - Snap-in markers

0828238

<https://www.phoenixcontact.com/us/products/0828238>

Snap-in markers, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20



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## UCT-EM (17,5X9) - Snap-in markers

0801491

<https://www.phoenixcontact.com/us/products/0801491>

Snap-in markers, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 24



# SACB-4/ 8-SC SCO P - Distributor box

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## UCT-EM (17,5X9) CUS - Snap-in markers

0801575

<https://www.phoenixcontact.com/us/products/0801575>

UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications



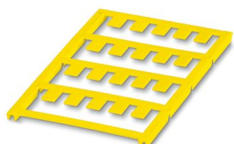
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## UC-EM (17,5X9) YE - Snap-in markers

0827494

<https://www.phoenixcontact.com/us/products/0827494>

Snap-in markers, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 20



# SACB-4/ 8-SC SCO P - Distributor box

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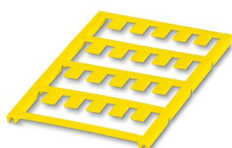
<https://www.phoenixcontact.com/us/products/1452932>



## UC-EM (17,5X9) YE CUS - Snap-in markers

0828239

<https://www.phoenixcontact.com/us/products/0828239>



Snap-in markers, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

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## UCT-EM (17,5X9) YE - Snap-in markers

0801492

<https://www.phoenixcontact.com/us/products/0801492>



Snap-in markers, Sheet, yellow, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 24

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## UCT-EM (17,5X9) YE CUS - Snap-in markers

0801576

<https://www.phoenixcontact.com/us/products/0801576>

UniCard sheet, for labeling devices from other manufacturers, for overview table  
see download area, labeled according to customer specifications



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## A 0,5 - 6 - Ferrule

3200218

<https://www.phoenixcontact.com/us/products/3200218>

Ferrule, color: silver



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<https://www.phoenixcontact.com/us/products/1452932>

## A 0,75-10 - Ferrule

3200234

<https://www.phoenixcontact.com/us/products/3200234>



Ferrule, color: silver

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## A 1 -10 - Ferrule

3200250

<https://www.phoenixcontact.com/us/products/3200250>



Ferrule, color: silver

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## A 1,5 -10 - Ferrule

3200276

<https://www.phoenixcontact.com/us/products/3200276>

Ferrule, sleeve length: 10 mm, color: silver



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## UTA 107 - DIN rail adapter

2853983

<https://www.phoenixcontact.com/us/products/2853983>

Universal DIN rail adapter, for screwing on switchgear



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## 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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## 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 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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## SZK PZ2 VDE - Screwdriver

1206463

<https://www.phoenixcontact.com/us/products/1206463>

Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip



# SACB-4/ 8-SC SCO P - Distributor box



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<https://www.phoenixcontact.com/us/products/1452932>

## TSD 25 SAC - Torque screwdriver

1212315

<https://www.phoenixcontact.com/us/products/1212315>



Torque screwdriver, with preset torque of 2.5 Nm and 4 mm hexagonal drive for the pressure nut of the connector hood

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## TSD-M 3NM - Torque screwdriver

1212225

<https://www.phoenixcontact.com/us/products/1212225>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm

## SACB-4/ 8-SC SCO P - Distributor box

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<https://www.phoenixcontact.com/us/products/1452932>



## SAC BIT HOOD-W 24 - Tool

1212486

<https://www.phoenixcontact.com/us/products/1212486>

Nut for assembling pressure nuts with 24 mm wrench size, for 4 mm hexagonal drive



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## SF-BIT-PZ 2-50 - Screw insert

1212592

<https://www.phoenixcontact.com/us/products/1212592>

Screw bit, PZ crosshead, E6.3-1/4" drive, size: PZ 2 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173



# SACB-4/ 8-SC SCO P - Distributor box

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## SZS 0,4X2,0 - Screwdriver

1205202

<https://www.phoenixcontact.com/us/products/1205202>



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

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