

# SACB-C-H180- 8/3- 5,0PUR-M8 HD - Connector hood



1197628

<https://www.phoenixcontact.com/us/products/1197628>

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Connector hood, application: Sensor/actuator box, connection method: M8 socket Metal, number of slots: 8, number of positions: 3, slot assignment: single, status display: no, Universal; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 5 m, shielding: no

## Your advantages

- Flexible, distributed bundling of signals in one master cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1197628       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF40          |
| Product key                          | AF3BCG        |
| GTIN                                 | 4063151257477 |
| Weight per piece (including packing) | 575 g         |
| Weight per piece (excluding packing) | 553 g         |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

## Technical data

### Notes

|               |                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assembly note | <b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                     |                     |
|---------------------|---------------------|
| Product type        | Connector hood      |
| Application         | Sensor/actuator box |
| Number of positions | 3                   |
| Number of slots     | 8                   |

### Electrical properties

|                                         |         |
|-----------------------------------------|---------|
| Max. operating voltage $U_{max}$        | 30 V DC |
| Nominal voltage $U_N$                   | 24 V DC |
| Rated current, total                    | 8 A     |
| Max. current carrying capacity per path | 2 A     |
| Current carrying capacity per slot      | 2 A     |

### Connection data

#### Conductor connection

|                                   |                            |
|-----------------------------------|----------------------------|
| Sensor/actuator connection system | M8 socket                  |
| Connection method                 | Pluggable screw connection |
| Tightening torque, cover screw    | 1 Nm                       |

#### Connection assignment

|                                          |                               |
|------------------------------------------|-------------------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = 1 / 4 = WH        |
|                                          | 2 / 4 (A) = 2 / 4 = GN        |
|                                          | 3 / 4 (A) = 3 / 4 = YE        |
|                                          | 4 / 4 (A) = 4 / 4 = GY        |
|                                          | 5 / 4 (A) = 5 / 4 = PK        |
|                                          | 6 / 4 (A) = 6 / 4 = RD        |
|                                          | 7 / 4 (A) = 7 / 4 = BK        |
|                                          | 8 / 4 (A) = 8 / 4 = VT        |
|                                          | 1-8 / 1 (+ 24 V) = $U_N$ = BN |
| 1-8 / 3 (0 V) = 0 V = BU                 |                               |

### Signaling

|                        |    |
|------------------------|----|
| Status display present | no |
|------------------------|----|

### Dimensions

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|                     |        |
|---------------------|--------|
| Dimensional drawing |        |
| Width               | 30 mm  |
| Height              | 32 mm  |
| Length              | 105 mm |

## Material specifications

|                                                          |                    |
|----------------------------------------------------------|--------------------|
| Material Housing                                         | PBT                |
| Material Cable gland                                     | PA 6 (Cable gland) |
| Seal material                                            | CR/NBR             |
| 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           | tin-plated         |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

### PUR/PVC black [PUR]

|                                     |                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------|
| Dimensional drawing                 |                                                                               |
| Cable weight                        | 92 kg/km                                                                      |
| UL AWM Style                        | 20549                                                                         |
| Number of positions                 | 10                                                                            |
| Shielded                            | no                                                                            |
| Cable type                          | PUR/PVC black [PUR]                                                           |
| Conductor structure signal line     | 19x 0.15 mm                                                                   |
| AWG signal line                     | 22                                                                            |
| Conductor structure, voltage supply | 42x 0.15 mm                                                                   |
| AWG power supply                    | 18                                                                            |
| Conductor cross-section             | 8x 0.34 mm <sup>2</sup> (Signal line)<br>2x 0.75 mm <sup>2</sup> (power line) |
| Wire diameter incl. insulation      | 1.3 mm ±0.1 mm (Signal line)                                                  |

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|                                               |                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                               | 1.8 mm ±0.1 mm (power line)                                                                                               |
| External cable diameter                       | 7.90 mm ±0.2 mm                                                                                                           |
| Outer sheath, material                        | PUR                                                                                                                       |
| External sheath, color                        | black RAL 9005                                                                                                            |
| Conductor material                            | Bare Cu litz wires                                                                                                        |
| Material wire insulation                      | PVC                                                                                                                       |
| Single wire, color                            | brown, blue, white, green, yellow, gray, pink, red, black, violet                                                         |
| Inner sheath thickness                        | ≥ 0.15 mm                                                                                                                 |
| Thickness, outer sheath                       | ≥ 0.38 mm                                                                                                                 |
| Overall twist                                 | Wires twisted in layers                                                                                                   |
| Nominal voltage, cable                        | 300 V                                                                                                                     |
| Test voltage                                  | 2000 V                                                                                                                    |
| Minimum bending radius, fixed installation    | 7.5 x D                                                                                                                   |
| Minimum bending radius, flexible installation | 10 x D                                                                                                                    |
| Smallest bending radius, fixed installation   | 60 mm                                                                                                                     |
| Smallest bending radius, movable installation | 79 mm                                                                                                                     |
| Dynamic load capacity (bending)               | Max. bending cycles: 1500000, Bending radius: 79 mm, Traversing path: 2 m, Traversing rate: 2 m/s                         |
| Flame resistance                              | DIN EN 50265                                                                                                              |
| Resistance to oil                             | according to VDE 0472 Part 803                                                                                            |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents                                                                |
| Special properties                            | Silicone-free                                                                                                             |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)<br>-5 °C ... 80 °C (Cable, flexible installation)<br>80 °C (in acc. with UL) |

## Environmental and real-life conditions

### Ambient conditions

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

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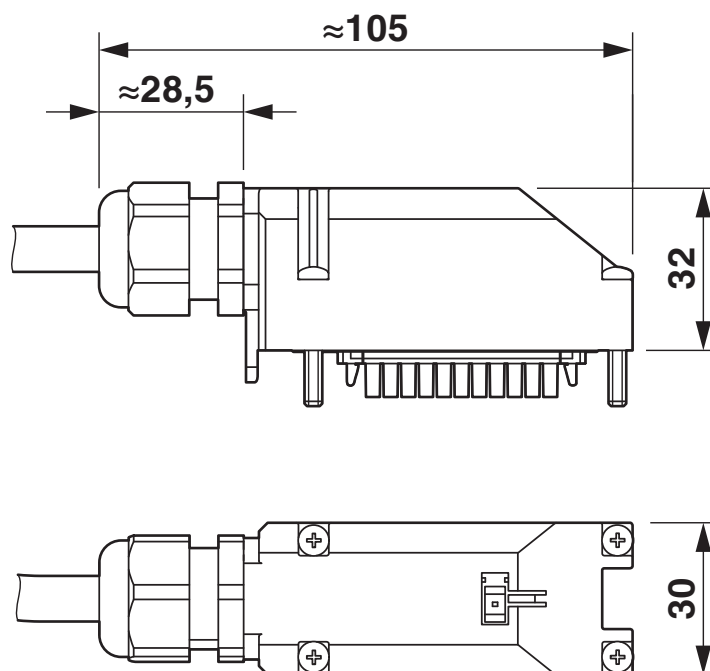


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## Drawings

Dimensional drawing



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## Approvals

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|  <b>UL Recognized</b><br>Approval ID: FILE E 118976 |                       |                       |                   |                      |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                                |                       |                       |                   |                      |
|                                                                                                                                      | 24 V                  | -                     | -                 | -                    |

|  <b>cUL Recognized</b><br>Approval ID: FILE E 118976 |                       |                       |                   |                      |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                                 |                       |                       |                   |                      |
|                                                                                                                                       | 24 V                  | -                     | -                 | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440108 |
| ECLASS-15.0 | 27440108 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002585 |
|-----------|----------|

### 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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