



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Sensor/actuator box - SACB-8/16- 5,0PUR SH - 1695825

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Sensor/actuator box, application: Standard, connection method: M12 socket Metal, number of slots: 8, number of positions: 5, coding: A - standard, slot assignment: Double, status display: No, Universal; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 5 m, shielding: yes

### Why buy this product

- Safety in the field, thanks to molded housing and high degree of protection
- Flexible, distributed bundling of signals in one master cable
- Save space: distributor box with double occupancy for two sensors in one slot
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 017918 899462 |
| GTIN         | 4017918899462   |

### Technical data

#### General

|  |            |
|--|------------|
| Rated voltage                            | 48 V       |
|  | 60 V DC    |
| Current carrying capacity per I/O signal | 2 A        |
| Current carrying capacity per slot       | 4 A        |
| Total rated current                      | 12 A       |
| Number of positions                      | 5          |
| Number of slots                          | 8          |
| Flammability rating according to UL 94   | V0         |
| Sensor/actuator connection system        | M12 socket |

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

# Sensor/actuator box - SACB-8/16- 5,0PUR SH - 1695825

## Technical data

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -25 °C ... 70 °C |
|                                 | -40 °C ... 90 °C |
|                                 | -5 °C ... 80 °C  |

### Master cable connection data

|  |                  |
|--|------------------|
| Connection method                            | Fixed connection |
| Length of cable                              | 5 m              |
| Tightening torque slot sensor/actuator cable | 0.4 Nm           |

### Insulation material

|  |               |
|--|---------------|
| Housing material                               | Aluminum      |
| Housing surface material                       | Nickel-plated |
| Material of the moulding mass                  | PUR           |
| Contact material                               | Cu alloy      |
| Contact surface material                       | gold-plated   |
| Contact carrier material                       | PA            |
| Material of contact, master cable side         | CU alloy      |
| Material of contact surface, master cable side | Gold-plated   |
| Material of threaded sleeve                    | Aluminum      |
| O-ring material                                | NBR           |

### Pin assignment

|  |                       |
|--|-----------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH        |
|  | 1 / 2 (B) = GY/PK     |
|  | 2 / 4 (A) = GN        |
|  | 2 / 2 (B) = RD/BU     |
|  | 3 / 4 (A) = YE        |
|  | 3 / 2 (B) = WH/GN     |
|  | 4 / 4 (A) = GY        |
|  | 4 / 2 (B) = BN/GN     |
|  | 5 / 4 (A) = PK        |
|  | 5 / 2 (B) = WH/YE     |
|  | 6 / 4 (A) = RD        |
|  | 6 / 2 (B) = YE/BN     |
|  | 7 / 4 (A) = BK        |
|  | 7 / 2 (B) = WH/GY     |
|  | 8 / 4 (A) = VT        |
|  | 8 / 2 (B) = GY/BN     |
|  | 1-8 / 1 (+ 48 V) = BN |
|  | 1-8 / 3 (0 V) = BU    |
|  | 1-8 / 5 (PE) = GN/YE  |

### Standards and Regulations

# Sensor/actuator box - SACB-8/16- 5,0PUR SH - 1695825

## Technical data

### Standards and Regulations

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

### Cable

|   |  |
|---|--|
| Cable type                                      | PUR/PVC shielded, black  |
| Cable type (abbreviation)                       | PUR  |
| Cable abbreviation                              | LiYY11Y-HF   |
| Conductor cross section                         | 16x 0.5 mm <sup>2</sup> (Signal line)  |
|   | 3x 1 mm <sup>2</sup> (Power supply)  |
| AWG signal line                                 | 20   |
| AWG power supply                                | 17   |
| Conductor structure signal line                 | 64x 0.10 mm  |
| Conductor structure, voltage supply             | 128x 0.10 mm   |
| Wire colors                                     | brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown |
| Overall twist                                   | Wires twisted in layers  |
| Shielding                                       | Tinned copper braided shield   |
| External sheath, color                          | deep black RAL 9005  |
| External cable diameter D                       | 11.6 mm ±0,3 mm  |
| Number of bending cycles                        | 1500000  |
| Minimum bending radius, drag chain applications | 10 x D   |
| Traversing path                                 | 2 m  |
| Traversing rate                                 | 2 m/s  |
| Outer sheath, material                          | PUR  |
| Material conductor insulation                   | PVC  |
| Conductor material                              | Bare Cu litz wires   |
| Nominal voltage, cable                          | 300 V  |
| Test voltage, cable                             | 2000 V   |
| Special properties                              | Silicone-free  |
|   | Free of substances which would hinder coating with paint or varnish  |
| Flame resistance                                | DIN EN 50265   |
| Resistance to oil                               | according to VDE 0472 Part 803   |
| Other resistance                                | Highly resistant to acids, alkaline solutions and solvents   |
| Ambient temperature (operation)                 | -40 °C ... 90 °C (cable, fixed installation)   |
|   | -5 °C ... 80 °C (cable, flexible installation)   |

### Environmental Product Compliance

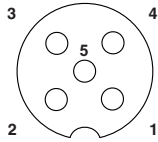
|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |



# Sensor/actuator box - SACB-8/16- 5,0PUR SH - 1695825

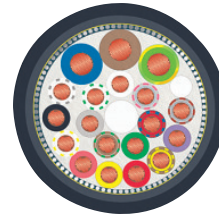
## Drawings

Schematic diagram



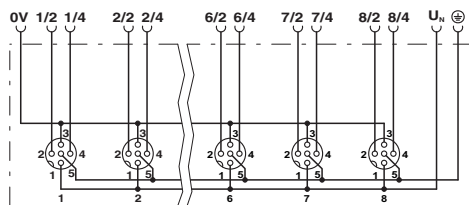
M12 slot, socket, 5-pos.

Cable cross section

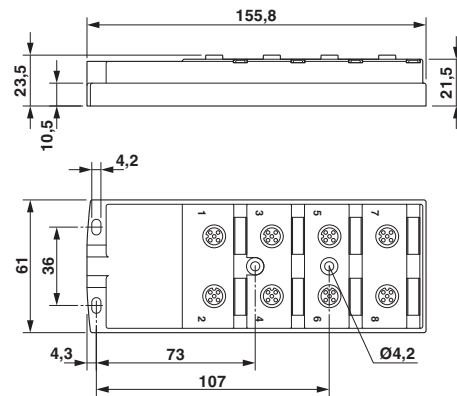


PUR/PVC shielded, black [PUR]

Circuit diagram



Dimensional drawing



## Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>