



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-L-PT SCO P - 1412060

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, Connection method: M12-SPEEDCON-socket Plastic, Number of slots: 8, Number of positions: 5, Coding: A - standard, Slot assignment: Double, Status indication: Yes, pnp; Master cable connection: Push-in-/Spring-cage connection 180°, Shielding: No

Product Features

- ✓ Safety in the field, thanks to molded housing and high degree of protection
- ✓ Flexible, distributed bundling of signals in one master cable
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ 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



Key Commercial Data

| | |
|----------------------|----------|
| Packing unit | 1 pc |
| Custom tariff number | 85366990 |
| Country of origin | Poland |

Technical data

General

| | |
|--|--|
| Rated voltage | 24 V DC |
| Max. operating voltage U_{max} | 30 V DC |
| Current carrying capacity per I/O signal | 2 A |
| Current carrying capacity per slot | 4 A |
| Total rated current | 8 A (Higher ratings can be achieved with different configurations) |
| Number of positions | 5 |
| Number of slots | 8 |
| Flammability rating according to UL 94 | V0 |
| Sensor/actuator connection system | M12-SPEEDCON-socket |

Sensor/actuator box - SACB-8/16-L-PT SCO P - 1412060

Technical data

Ambient conditions

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

Local diagnostics function

| | |
|-------------------|-------------------------------|
| Local diagnostics | Supply voltage Green LED |
| | Status display I/O Yellow LED |

Master cable connection data

| | |
|--|---------------------------------|
| Connection method | Push-in-/Spring-cage connection |
| Conductor cross section min. (signal) | 0.2 mm ² |
| Conductor cross section max. (signal) | 1 mm ² |
| Conductor cross section AWG min. (signal) | 24 |
| Conductor cross section AWG max. (signal) | 16 |
| Conductor cross section min. (energy) | 0.2 mm ² |
| Conductor cross section max. (energy) | 1 mm ² |
| Conductor cross section AWG min. (energy) | 24 |
| Conductor cross section AWG max. (energy) | 16 |
| External cable diameter min. | 7 mm |
| External cable diameter max. | 12 mm |
| Stripping length | 8 mm |
| Tightening torque, cover screw | 1 Nm |
| Tightening torque, union nut | 2.5 Nm |
| Tightening torque slot sensor/actuator cable | 0.4 Nm |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm |

Insulation material

| | |
|--|----------------------|
| Housing material | PBT |
| Material of the moulding mass | PUR |
| Contact material | Cu alloy |
| Contact surface material | Gold-plated |
| Contact carrier material | PA |
| Material of the contact carrier on the master cable side | PA |
| Material of threaded sleeve | PBT |
| O-ring material | NBR |
| Sealing material | NBR (Connector hood) |

Pin assignment

| | |
|--|----------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH |
|--|----------------|

Sensor/actuator box - SACB-8/16-L-PT SCO P - 1412060

Technical data

Pin assignment

| | |
|--|-----------------------|
| | 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 |
| | 1-4 / 1 (+ 24 V) = BN |
| | 1-8 / 3 (0 V) = BU |
| | 1-8 / 5 (PE) = GN/YE |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 8.0 | 27279219 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC002585 |
| ETIM 5.0 | EC002585 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized


Sensor/actuator box - SACB-8/16-L-PT SCO P - 1412060


Approvals

Ex Approvals

Approvals submitted

Approval details

| | |
|---|------|
| UL Recognized  | |
| Nominal current I _N | 8 A |
| Nominal voltage U _N | 24 V |

| | |
|--|------|
| cUL Recognized  | |
| mm ² /AWG/kcmil | 8 |
| Nominal current I _N | 24 A |

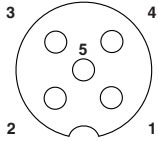
| |
|-----|
| EAC |
|-----|

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

Drawings

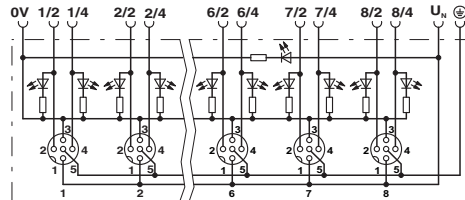
Sensor/actuator box - SACB-8/16-L-PT SCO P - 1412060

Schematic diagram



M12 slot, socket, 5-pos.

Circuit diagram



Dimensional drawing

