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

PHŒNIX CONTACT

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

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://download.phoenixcontact.com)

Sensor/actuator box, Connection method: M12 socket Plastic, Number of slots: 4, Number of positions: 4, Slot assignment: Single, Status indication: Yes, npn; Master cable connection: Spring-cage conn. 180°, Shielding: No

Product Features

☑ Safety in the field, thanks to robust 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

☑ Flexible: distributor box with connector hood for on-site assembly

Key commercial data

Packing unit	1 PCE
Weight per Piece (excluding packing)	98.0 GRM
Custom tariff number	85444290
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	12 A
Number of positions	4
Number of slots	4
Inflammability class according to UL 94	V0
Sensor/actuator connection system	M12 socket

Ambient conditions

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Technical data

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 75 °C

Local diagnostics function

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

Master cable data/connection data

Connection method	Spring-cage conn.
Conductor cross section min. (signal)	0.14 mm²
Conductor cross section max. (signal)	1 mm²
Conductor cross section AWG min. (signal)	26
Conductor cross section AWG max. (signal)	18
Stripping length (signal)	10 mm
Conductor cross section min. (energy)	0.2 mm²
Conductor cross section max. (energy)	1.5 mm²
Conductor cross section AWG min. (energy)	24
Conductor cross section AWG max. (energy)	16
External cable diameter min.	9.5 mm
External cable diameter max.	6.5 mm
Tightening torque, union nut	2.5 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm

Insulation material

Housing material	PA
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA
Material of contact, master cable side	CuZn
Material of contact surface, master cable side	NiSn
Material of the contact carrier on the master cable side	PA 66 V0
Material of threaded sleeve	PA
Material, O-ring	NBR

Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = 1 / 4
	2 / 4 (A) = 2 / 4
	3 / 4 (A) = 3 / 4

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Technical data

Pin assignment

	4 / 4 (A) = 4 / 4
	1-4 / 1 (+ 24 V) = U_N
	1-4 / 3 (0 V) = 0 V
	1-4 / 5 (PE) = PE

Classifications

eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001

ETIM

ETIM 2.0	EC000200
ETIM 3.0	EC001856
ETIM 4.0	EC002585
ETIM 5.0	EC002585

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Approvals

Approvals submitted

Approval details

UL Recognized

mm²/AWG/kcmil	22-16
Nominal voltage UN	24 V

cUL Recognized

mm²/AWG/kcmil	22-16
Nominal voltage UN	24 V

GOST

cULus Recognized

Accessories

Accessories

Cable by the meter

Master cable ring - SACB- 4X0,34/ 3X0,75-50,0 PUR - 1503328

Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PVC, 7-pos., 4 x 0.34 mm² and 3 x 0.75 mm²

Device marking

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128

Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Protective cap

Screw plug - PROT-M12 - 1680539

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

Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432

Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

Tool - SACC BIT M12-D20 - 1208445

Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

Philips screwdriver - SZK PZ2 VDE - 1206463

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

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Accessories

Seal

Grommet - SACB-D PG 13,5 (4,0-6,5) YE - 1680377

Rubber seal for Pg13.5 screw connection, for 4.0 mm ... 6.5 mm cable diameter

---

Grommet - SACB-D PG 13,5 (6,5-9,5) BK - 1680380

Rubber seal for Pg13.5 screw connection, for 6.5 mm ... 9.5 mm cable diameter

---

Grommet - SACB-D PG 13,5 (9,0-13,0) RD - 1680393

Rubber seal for Pg13.5 screw connection, for 9.0 mm ... 13.0 mm cable diameter

---

Torque tool

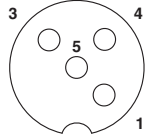Torque screwdriver - TSD 04 SAC - 1208429

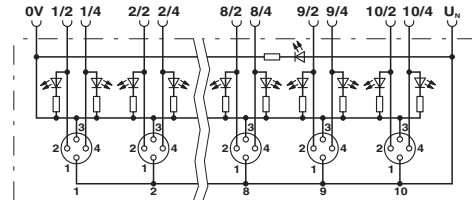Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

---

Drawings

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Schematic diagram

Circuit diagram

M12 slot, socket, 4-pos.

Sensor/actuator box - SACB-4/ 4-L-SC NPN - 1680733

Dimensioned drawing