

## Sensor/actuator box - SACB-4Q/4P-L-SC NPN - 1680856

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Sensor/actuator box, Connection method: QUICKON, 0.34 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, Number of slots: 4, Number of positions: 4, Slot assignment: Single, Status indication: Yes, npn; Master cable connection: Spring-cage conn. 180°, Shielding: No

The illustration shows a version with 8 QUICKON connections and LED

### 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
- ✓ Innovative and time-saving assembly with insulation displacement connection
- ✓ Flexible: distributor box with connector hood for on-site assembly



### Key commercial data

Packing unit	1 PCE
Weight per Piece (excluding packing)	195.7 GRM
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### General

Rated voltage	24 V DC
Max. operating voltage U <sub>max</sub>	30 V DC
Current carrying capacity per I/O signal	4 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 box - SACB-4Q/4P-L-SC NPN - 1680856

## Technical data

### General

Sensor/actuator connection system	QUICKON
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### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 60 °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 mm <sup>2</sup>
Conductor cross section max. (signal)	1 mm <sup>2</sup>
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 mm <sup>2</sup>
Conductor cross section max. (energy)	1.5 mm <sup>2</sup>
Conductor cross section AWG min. (energy)	24
Conductor cross section AWG max. (energy)	16
External cable diameter min.	6.5 mm
External cable diameter max.	9.5 mm
Stripping length	70 mm (Master cable)
Tightening torque, union nut	2.5 Nm

### Conductor data

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	Class 2-6 // 0.34 mm <sup>2</sup> : 0.1 mm; 0.5 - 0.75 mm <sup>2</sup> : 0.15 mm
Wire insulation material	PVC/PE
Wire diameter including insulation	≤ 2.5 mm
Minimum external conductor diameter	4 mm
Maximum external conductor diameter	7.5 mm
Tightening torque, union nut	2.5 Nm
Wrench size, union nut	22 mm
Note on the frequency of connections	if the conductor is connected more than once, seal and cap may need to be replaced.
Conductor cross section stranded min.	0.34 mm <sup>2</sup>
Conductor cross section stranded max.	0.75 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	22

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## Technical data

### Conductor data

Conductor cross section AWG/kcmil max	18
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### Insulation material

Housing material	PA
Material of the moulding mass	PUR
Contact material	Steel/copper
Contact surface material	Sn
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

### Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = 1 / 4
	2 / 4 (A) = 2 / 4
	3 / 4 (A) = 3 / 4
	4 / 4 (A) = 4 / 4
	1-4 / 1 (+ 24 V) = U <sub>N</sub>
	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
eCl@ss 8.0	27449001

### ETIM

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

### UNSPSC

UNSPSC 6.01	31261501
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## Classifications

### UNSPSC

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

Approvals submitted

### Approval details

UL Recognized	
mm <sup>2</sup> /AWG/kcmil	22-16
Nominal voltage UN	24 V

cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	22-16
Nominal voltage UN	24 V

GOST	
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## Sensor/actuator box - SACB-4Q/4P-L-SC NPN - 1680856

### Approvals

cULus Recognized  US

### 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 mm<sup>2</sup> and 3 x 0.75 mm<sup>2</sup>

#### Device marking

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

#### Pressure nut

Screw connection set - Q SET-11/4 COD1 SACB-Q - 1670743



QUICKON set for replacement purposes, consisting of pressure nut, cap, line seal and splice ring

#### Protective cap

## Sensor/actuator box - SACB-4Q/4P-L-SC NPN - 1680856

### Accessories

Filler plugs - Q-PROT 9/11 - 1670235



Closing cap for Pg9/Pg11 to close unoccupied connections

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### Screwdriver tools

Philips screwdriver - SZK PZ2 VDE - 1206463



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

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### 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

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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

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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

# Sensor/actuator box - SACB-4Q/4P-L-SC NPN - 1680856

## Accessories

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Socket spanner

Socket wrench - QSS 22 - 1670206



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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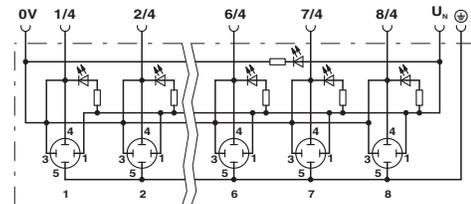
## Drawings

Schematic diagram



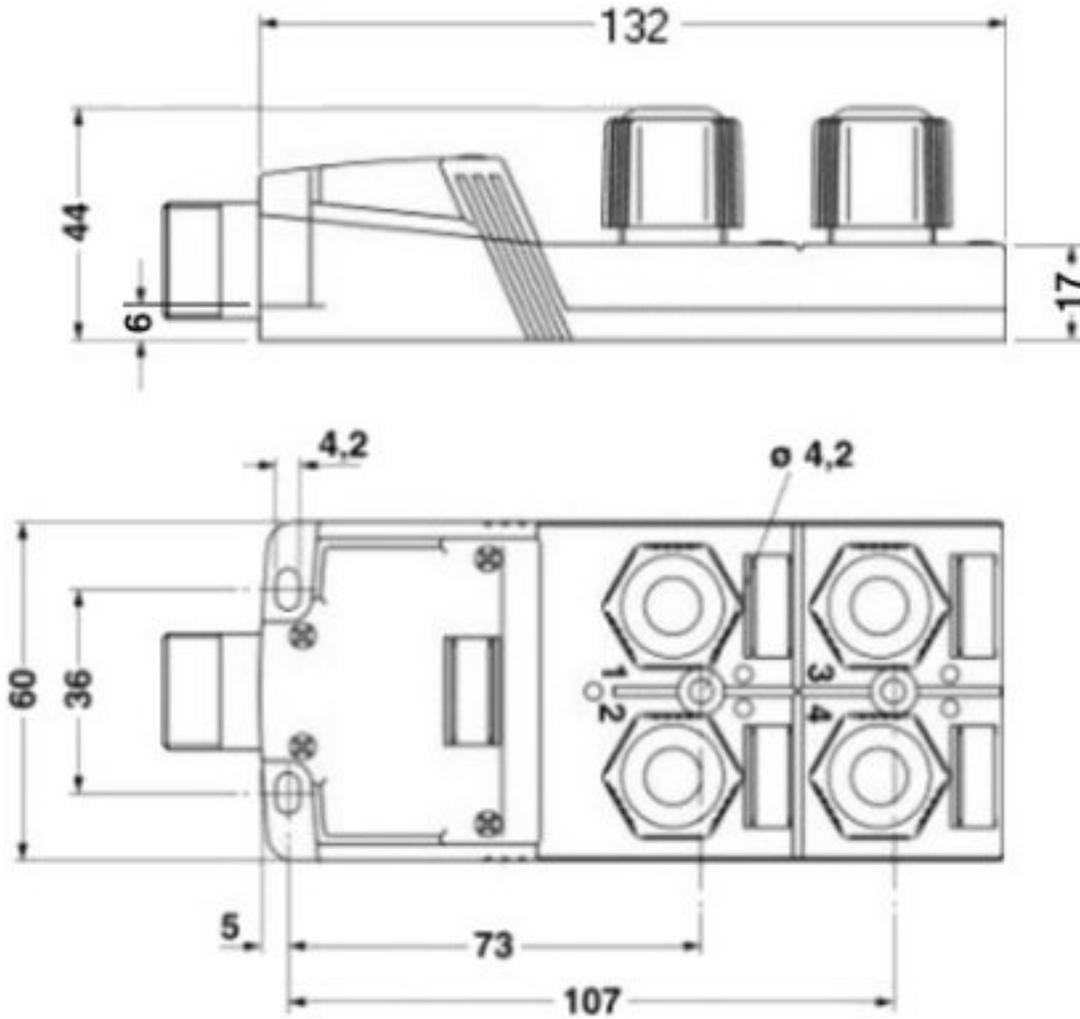
QUICKON connection, 4-pos.

Circuit diagram



# Sensor/actuator box - SACB-4Q/4P-L-SC NPN - 1680856

Dimensioned drawing



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