

## Sensor/actuator box - SACB-6/12-L-10,0HPUR - 1695935

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: 6, Number of positions: 5, Slot assignment: Double, Status indication: Yes, pnp; Master cable connection: Fixed connection 180°, PUR halogen free, Cable length: 10 m, Shielding: No

The illustration shows a version with 8 slots and connected master cable

### 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
- ✓ Save space: distributor box with double occupancy for two sensors in one slot



### Key commercial data

Packing unit	1 PCE
Weight per Piece (excluding packing)	1598.0 GRM
Custom tariff number	85444290
Country of origin	Germany

### 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	5
Number of slots	6
Inflammability class according to UL 94	V0
Sensor/actuator connection system	M12 socket

# Sensor/actuator box - SACB-6/12-L-10,0HPUR - 1695935

## Technical data

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 75 °C
	-40 °C ... 90 °C (for fixed installation)
	-5 °C ... 80 °C (for flexible installation)

### Local diagnostics function

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

### Master cable connection data

Connection method	Fixed connection
Length of cable	10 m
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 threaded sleeve	PA
Material, O-ring	NBR

### Cable

Cable abbreviation	Li9Y11Y-HF
Conductor cross section	12x 0.5 mm <sup>2</sup> (Signal)
	3x 0.5 mm <sup>2</sup> (Power)
AWG signal line	20
AWG power supply	17
Conductor structure signal line	64x 0.10 mm
Conductor structure, voltage supply	128x 0.10 mm
Overall twist	Wires twisted in layers
External sheath, color	Black RAL 9005
External cable diameter D	10.4 mm ±0.3 mm
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	2 m
Traversing rate	2 m/s
Outer sheath, material	PUR

# Sensor/actuator box - SACB-6/12-L-10,0HPUR - 1695935

## Technical data

### Cable

Conductor material	Bare Cu litz wires
Nominal voltage, cable	300 V
Test voltage, cable	2000 V
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

## 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-6/12-L-10,0HPUR - 1695935

## 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	
------	--

cULus Recognized	
------------------	--

## Accessories

### Accessories

#### Protective cap

Screw plug - PROT-M12 - 1680539

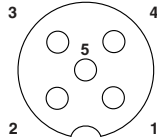


An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

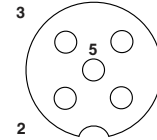
# Sensor/actuator box - SACB-6/12-L-10,0HPUR - 1695935

## Drawings

Schematic diagram

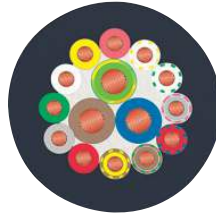


Schematic diagram



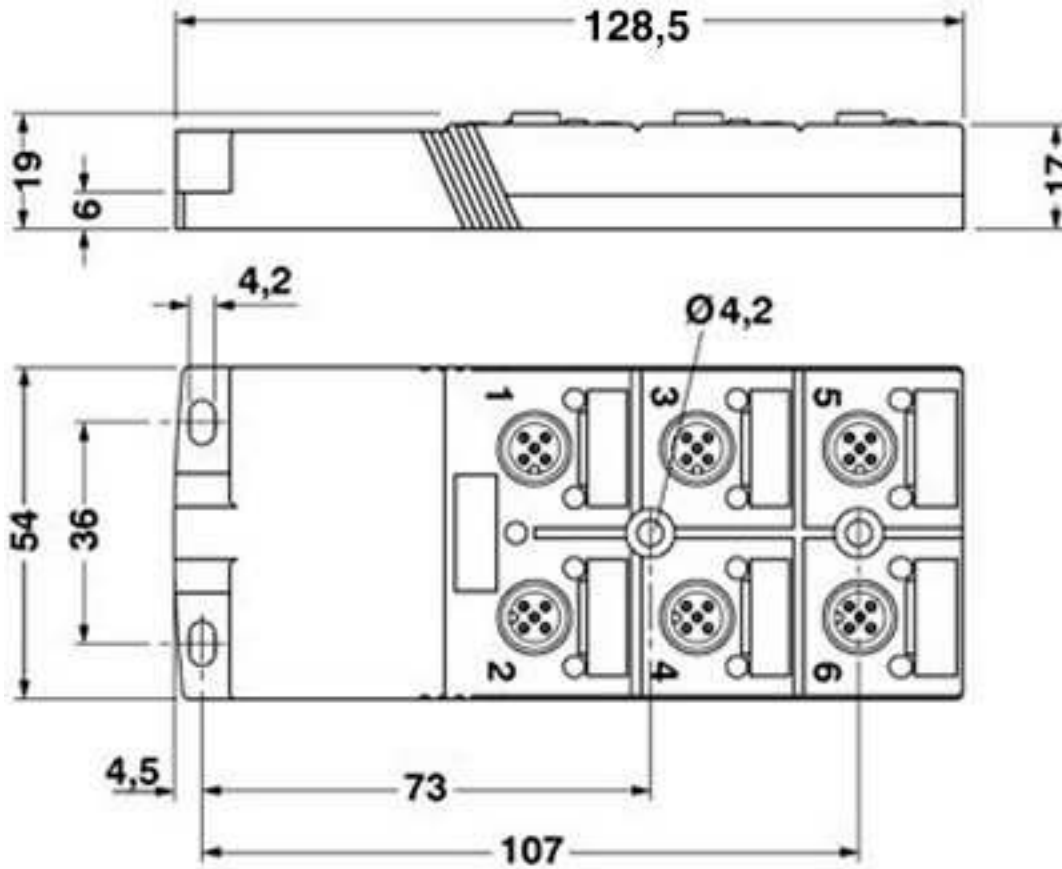
Pin assignment, socket M 12 (female side)

Cable cross section



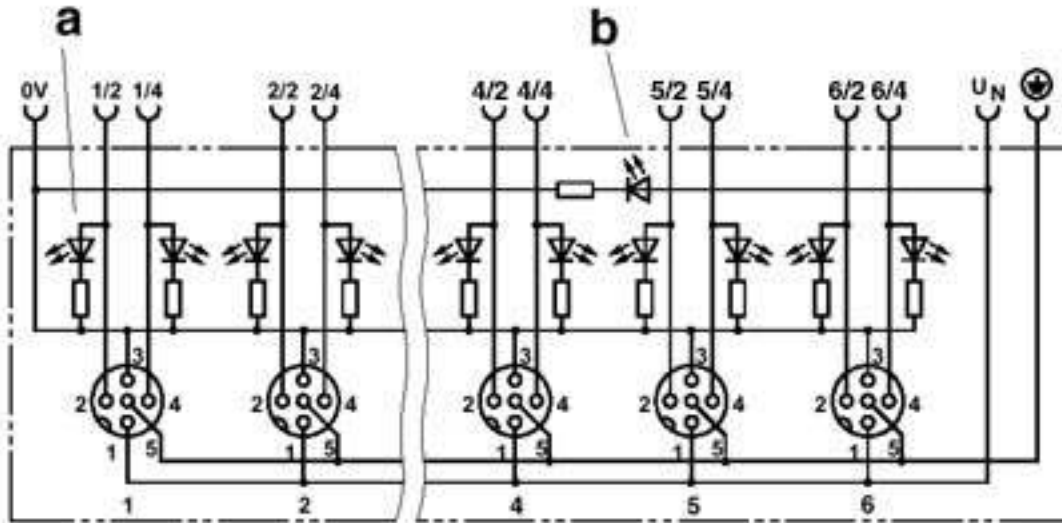
# Sensor/actuator box - SACB-6/12-L-10,0HPUR - 1695935

Dimensioned drawing



# Sensor/actuator box - SACB-6/12-L-10,0HPUR - 1695935

Schematic diagram



a = yellow  
b = green