

# Sensor/actuator box - SACB-8/16- 5,0PUR OD - 1457364

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Sensor/actuator box, Connection method: M12 socket Metal, Number of slots: 8, Number of positions: 5, Slot assignment: Double, Status indication: No, Universal; Master cable connection: Fixed connection 180°, PUR/PVC, Cable length: 5 m, 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
- Save space: distributor box with double occupancy for two sensors in one slot

## Key commercial data

<b>package_quantity</b>	1
<b>GTIN</b>	4046356620833

## Technical data

### General

<b>Rated voltage</b>	120 V
<b>Max. operating voltage <math>U_{max}</math></b>	135 V
<b>Current carrying capacity per I/O signal</b>	2 A
<b>Current carrying capacity per slot</b>	4 A
<b>Total rated current</b>	12 A
<b>Number of positions</b>	5
<b>Number of slots</b>	8
<b>Sensor/actuator connection system</b>	M12 socket

### Ambient conditions

<b>Degree of protection</b>	IP65
<b>Degree of protection</b>	IP67
<b>Degree of protection</b>	IP69K
<b>Ambient temperature (operation)</b>	-30 °C ... 90 °C
<b>Ambient temperature (operation)</b>	-40 °C ... 90 °C (cable, fixed installation)
<b>Ambient temperature (operation)</b>	-5 °C ... 80 °C (cable, flexible installation)

### Master cable connection data

<b>Connection method</b>	Fixed connection
<b>Length of cable</b>	5 m
<b>Tightening torque slot sensor/actuator cable</b>	0.4 Nm

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## Technical data

### Master cable connection data

Tightening torque screw plug	0.4 Nm
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### 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 threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	tin-plated
Material, O-ring	FPM

### Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
Slot/position = Wire color or connection	1 / 2 (B) = GY/PK
Slot/position = Wire color or connection	2 / 4 (A) = GN
Slot/position = Wire color or connection	2 / 2 (B) = RD/BU
Slot/position = Wire color or connection	3 / 4 (A) = YE
Slot/position = Wire color or connection	3 / 2 (B) = WH/GN
Slot/position = Wire color or connection	4 / 4 (A) = GY
Slot/position = Wire color or connection	4 / 2 (B) = BN/GN
Slot/position = Wire color or connection	5 / 4 (A) = PK
Slot/position = Wire color or connection	5 / 2 (B) = WH/YE
Slot/position = Wire color or connection	6 / 4 (A) = RD
Slot/position = Wire color or connection	6 / 2 (B) = YE/BN
Slot/position = Wire color or connection	7 / 4 (A) = BK
Slot/position = Wire color or connection	7 / 2 (B) = WH/GY
Slot/position = Wire color or connection	8 / 4 (A) = VT
Slot/position = Wire color or connection	8 / 2 (B) = GY/BN
Slot/position = Wire color or connection	1-8 / 1 (+ 120 V) = BN
Slot/position = Wire color or connection	1-8 / 3 (0 V) = BU
Slot/position = Wire color or connection	1-8 / 5 (PE) = GN/YE

### Cable

Cable type	PUR/PVC black
Cable type (abbreviation)	PUR
Cable abbreviation	LiYY11Y-HF
UL AWM style	20549 (80°C/300 V)
Conductor cross section	16x 0.5 mm <sup>2</sup> (signal line)
Conductor cross section	3x 1 mm <sup>2</sup> (power line)
AWG signal line	20
AWG power supply	17
Conductor structure signal line	28x 0.15 mm

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### Technical data

#### Cable

<b>Conductor structure, voltage supply</b>	56x 0.15 mm
<b>Core diameter including insulation</b>	1.5 mm ±0.1 mm (signal line)
<b>Core diameter including insulation</b>	2.1 mm ±0.1 mm (power line)
<b>Wire colors</b>	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
<b>Overall twist</b>	Wires twisted in layers
<b>External sheath, color</b>	Black RAL 9005
<b>Inner sheath thickness</b>	≥ 0.15 mm
<b>Outer sheath thickness</b>	≥ 0.76 mm
<b>External cable diameter D</b>	10.5 mm ± 0.2 mm
<b>Minimum bending radius, fixed installation</b>	7.5 x D
<b>Minimum bending radius, flexible installation</b>	10 x D
<b>Number of bending cycles</b>	1500000
<b>Minimum bending radius, drag chain applications</b>	10 x D
<b>Traversing path</b>	2 m
<b>Traversing rate</b>	2 m/s
<b>Cable weight</b>	183.7 kg/km
<b>Outer sheath, material</b>	PUR
<b>Material, inner sheath</b>	PVC
<b>Material conductor insulation</b>	PVC
<b>Conductor material</b>	Bare Cu litz wires
<b>Nominal voltage, cable</b>	300 V
<b>Test voltage, cable</b>	2000 V
<b>Special properties</b>	Silicone-free
<b>Flame resistance</b>	According to DIN EN 50265
<b>Resistance to oil</b>	As per VDE 0472 Part 803
<b>Other resistance</b>	Highly resistant to acids, alkaline solutions and solvents
<b>Ambient temperature (operation)</b>	-40 °C ... 90 °C (cable, fixed installation)
<b>Ambient temperature (operation)</b>	-5 °C ... 80 °C (cable, flexible installation)

### classifications

#### eCl@ss

<b>eCl@ss 4.0</b>	27140815
<b>eCl@ss 4.1</b>	27140815
<b>eCl@ss 5.0</b>	27143423
<b>eCl@ss 5.1</b>	27143423
<b>eCl@ss 6.0</b>	27143423
<b>eCl@ss 7.0</b>	27449001
<b>eCl@ss 8.0</b>	27449001

#### ETIM

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## classifications

### ETIM

ETIM 4.0	EC002585
ETIM 5.0	EC002585

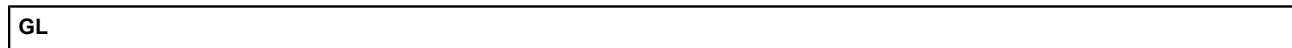
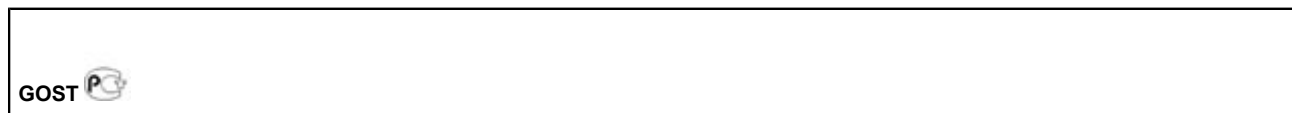
### UNSPSC

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

## approvals

GOST / GL /

### Approval details



## accessories

### Protective cap

PROT-M12 FB - 1555538



## Device marking

SS-ZB 17,5 WH - 0804963



## Sensor/actuator box - SACB-8/16- 5,0PUR OD - 1457364

accessories

### Torque tool

TSD 04 SAC - 1208429



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### Screwdriver tools

SAC BIT M12-W14 - 1212513

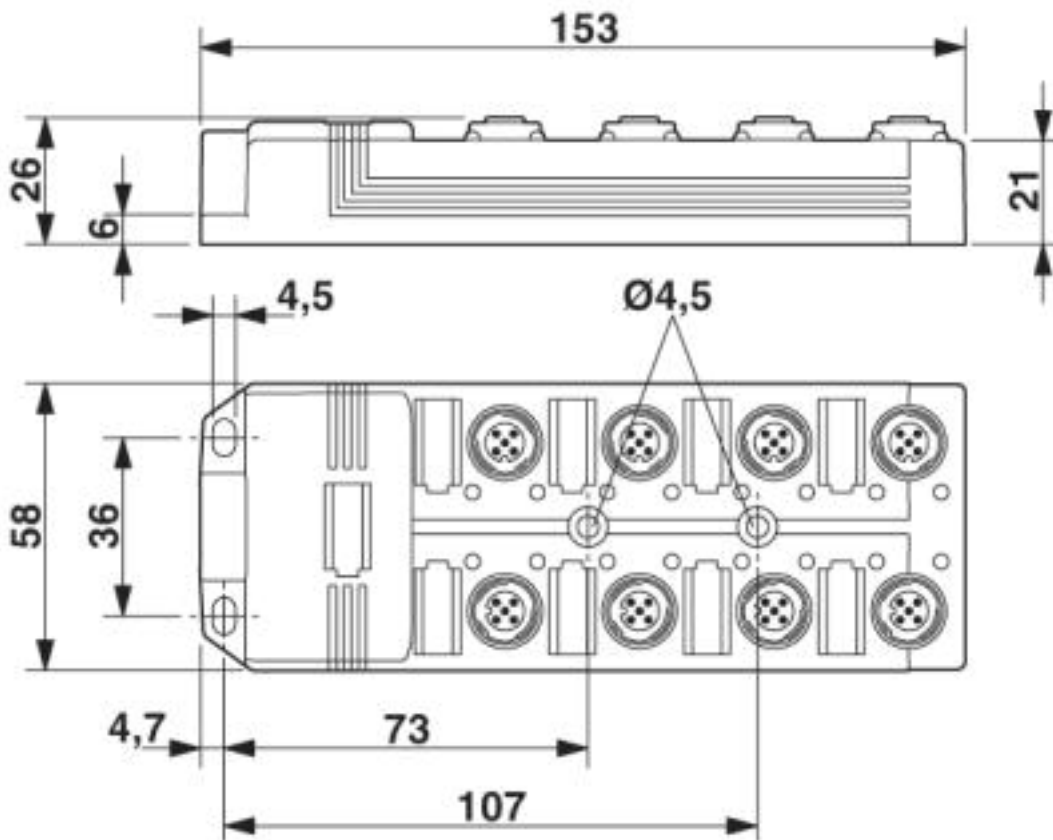


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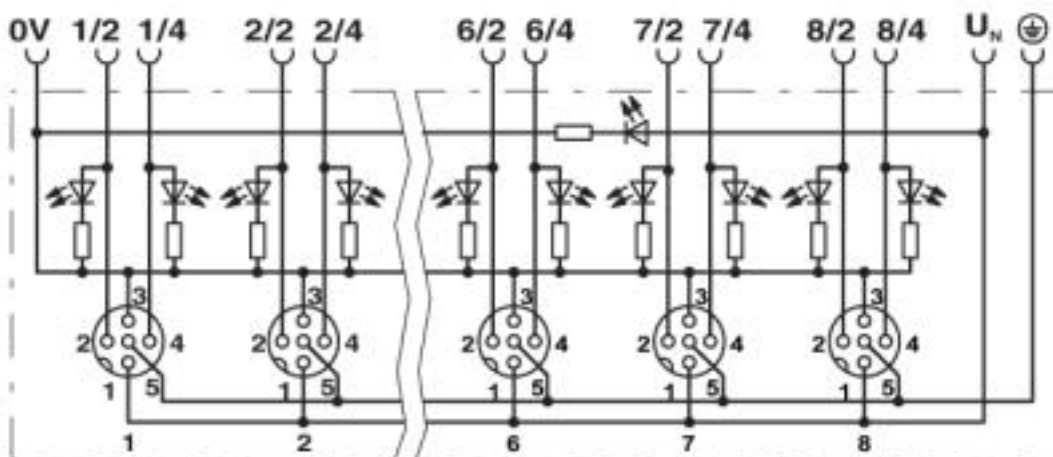
### Drawings

# Sensor/actuator box - SACB-8/16- 5,0PUR OD - 1457364

Dimensioned drawing

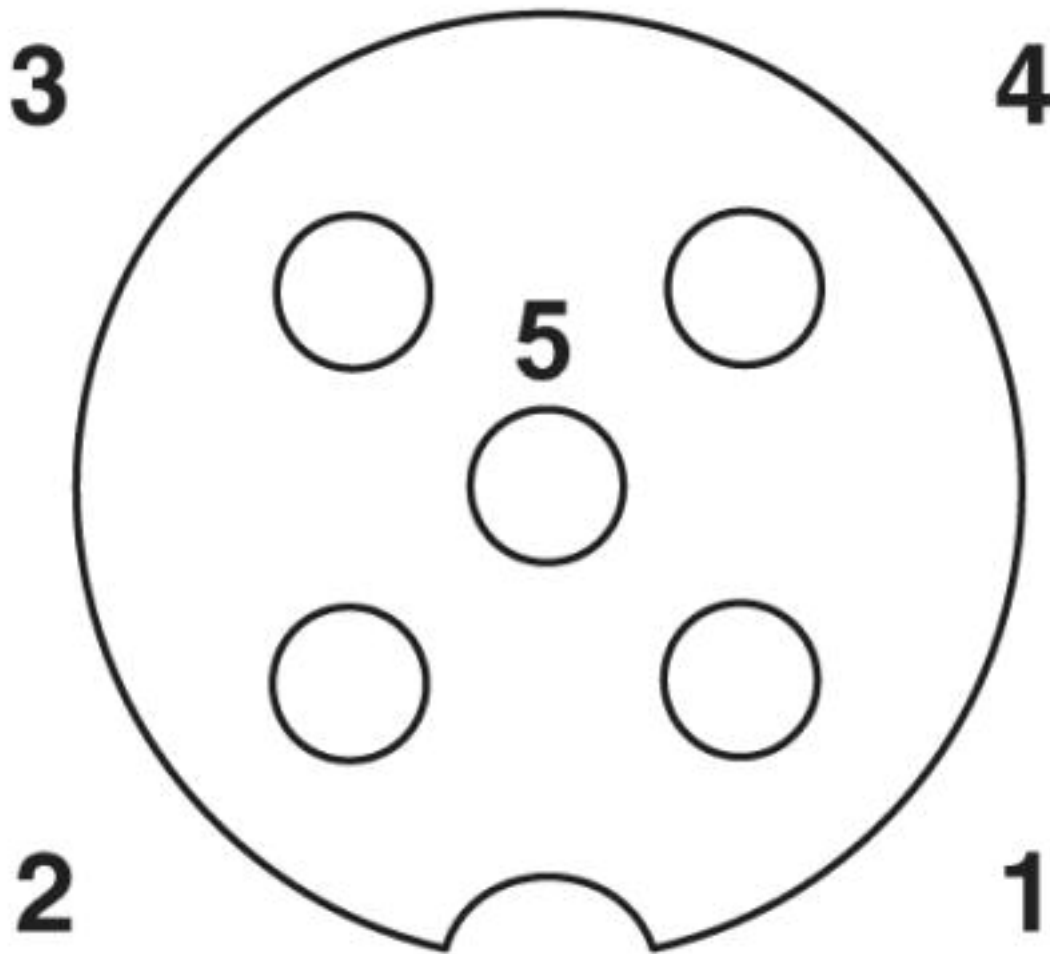


Circuit diagram



# Sensor/actuator box - SACB-8/16- 5,0PUR OD - 1457364

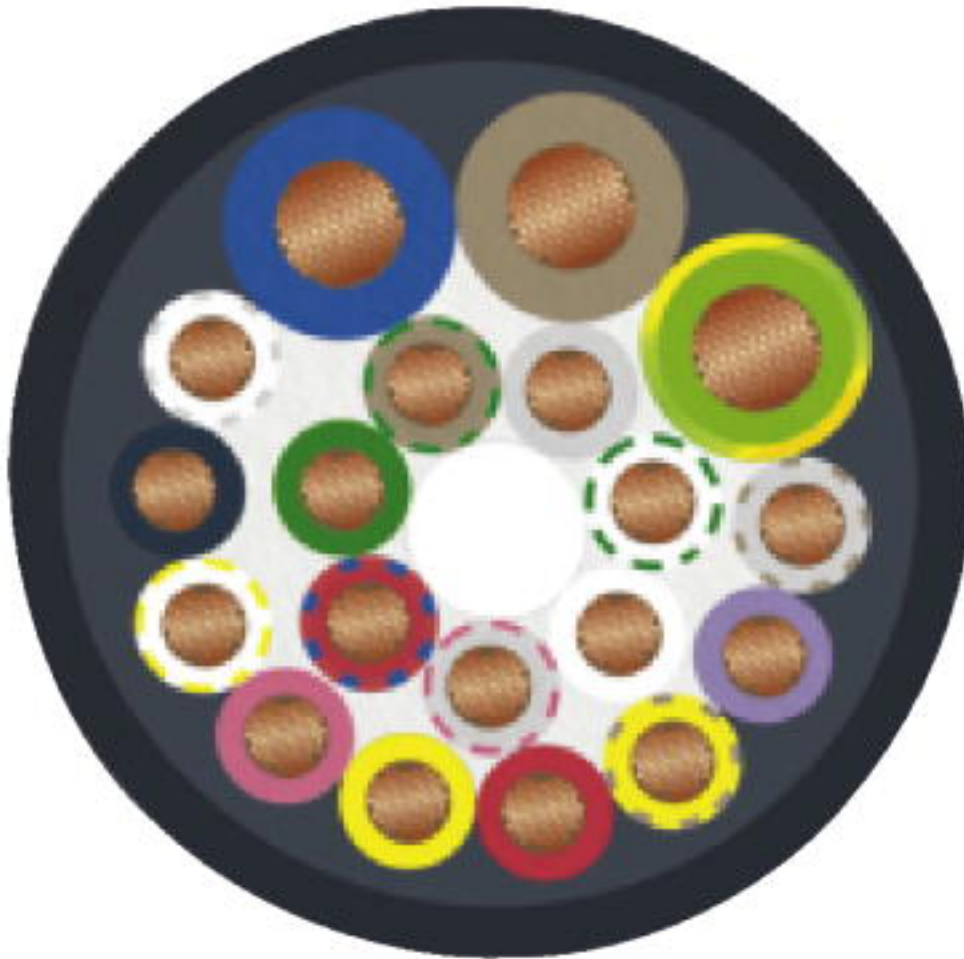
Schematic diagram



M12 slot, socket, 5-pos.

## Sensor/actuator box - SACB-8/16- 5,0PUR OD - 1457364

Cable cross section



PUR/PVC black [PUR]

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