

## Sensor/actuator box - SACB-8/ 8- 5,0PUR - 1680982

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Sensor/actuator box, Connection method: M12 socket Plastic, Number of slots: 8, Number of positions: 4, Slot assignment: Single, 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 robust housing and high degree of protection
- Flexible, distributed bundling of signals in one master cable



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	660.0 GRM
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### General

Rated voltage	120 V
Max. operating voltage $U_{max}$	135 V
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	8
Inflammability class according to UL 94	V0
Sensor/actuator connection system	M12 socket

#### Ambient conditions

Degree of protection	IP65
	IP67

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### Technical data

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
	-40 °C ... 90 °C (for fixed installation)
	-5 °C ... 80 °C (for flexible installation)

#### Master cable connection data

Connection method	Fixed connection
Length of cable	5 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

#### Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	2 / 4 (A) = GN
	3 / 4 (A) = YE
	4 / 4 (A) = GY
	5 / 4 (A) = PK
	6 / 4 (A) = RD
	7 / 4 (A) = BK
	8 / 4 (A) = VT
	1-8 / 1 (+ 120 V) = BN
	1-8 / 3 (0 V) = BU
	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	8x 0.34 mm <sup>2</sup> (signal line)
	3x 0.75 mm <sup>2</sup> (power line)
AWG signal line	22
AWG power supply	18

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### Technical data

#### Cable

Conductor structure signal line	19x 0.15 mm
Conductor structure, voltage supply	42x 0.15 mm
Core diameter including insulation	1.3 mm ±0.1 mm (signal line)
	1.8 mm ±0.1 mm (power line)
Thickness, insulation	≥ 0.15 mm (Inner sheath)
	≥ 0.38 mm (Outer cable sheath)
Overall twist	Wires twisted in layers
External sheath, color	Black RAL 9005
External cable diameter D	8.5 mm ±0.2 mm
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1500000
Minimum bending radius, drag chain applications	10 x D
Traversing path	2 m
Traversing rate	2 m/s
Cable weight	107.4 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Nominal voltage, cable	300 V
Test voltage, cable	2000 V
Special properties	Silicone-free
Flame resistance	DIN EN 50265
Resistance to oil	As per VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
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

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## Classifications

### eCl@ss

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
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	120 V

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## Approvals

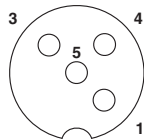
cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	22-16
Nominal voltage UN	120 V

GOST	
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cULus Recognized	
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## Drawings

Schematic diagram



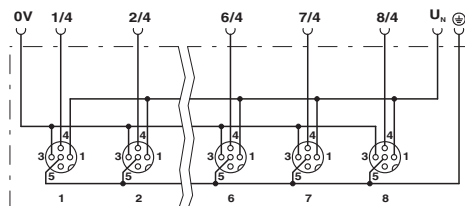
M12 slot, socket, 4-pos.

Cable cross section



PUR/PVC black [PUR]

Circuit diagram



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Dimensioned drawing

