

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box



1197216

<https://www.phoenixcontact.com/us/products/1197216>

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 documentation. Our general terms of use for downloads are valid.



Distributor box, application: Standard, connection method: M8 socket Metal, number of slots: 6, number of positions: 3, coding: A, slot assignment: single, status display: Yes, pnp; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 5 m, shielding: no

Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

Item number	1197216
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF40
Product key	BF3BCA
GTIN	4063151256906
Weight per piece (including packing)	562.1 g
Weight per piece (excluding packing)	527 g
Customs tariff number	85444290
Country of origin	DE

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
Note on application	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

Product properties

Product type	Distributor box
Application	Standard
Number of positions	3
Number of slots	6
Coding	A
LED	yes

System properties

Local diagnostics	
Monitored function	Supply voltage
Optical representation	Green LED

Electrical properties

Max. operating voltage U_{max}	30 V DC
Local diagnostics	Supply voltage Green LED
	Status display I/O Yellow LED
Nominal voltage U_N	24 V DC
Rated current, total	6 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	2 A

Connection data

Conductor connection	
Sensor/actuator connection system	M8 socket
Tightening torque slot sensor/actuator cable	0.2 Nm

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

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



1-6 / 1 (+ 24 V) = BN

1-6 / 3 (0 V) = BU

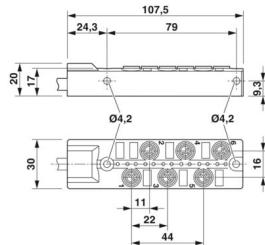
Signaling

Status display present

Yes

Dimensions

Dimensional drawing



Width

30 mm

Height

20 mm

Length

107.5 mm

Material specifications

Material Threaded sleeve	Cu alloy
Material Housing	PBT
Material Molding compound	PUR
Seal material O-ring	FKM
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PBT

Cable/line

Cable length

5 m

PUR/PVC black [PUR]

Dimensional drawing



Cable weight

81.2 kg/km

UL AWM Style

20549

Number of positions

8

Shielded

no

Cable type

PUR/PVC black [PUR]

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor cross section	6x 0.34 mm ² (Signal line) 2x 0.75 mm ² (power line)
Wire diameter incl. insulation	1.3 mm ±0.1 mm (Signal line) 1.8 mm ±0.1 mm (power line)
External cable diameter	7.60 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, white, green, yellow, gray, pink, red
Inner sheath thickness	≥ 0.15 mm
Thickness, outer sheath	≥ 0.38 mm
Overall twist	Wires twisted in layers
Nominal voltage, cable	300 V
Test voltage	2000 V
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	57 mm
Smallest bending radius, movable installation	76 mm
Max. bending cycles	1500000
Bending radius	76 mm
Traversing path	2 m
Traversing rate	2 m/s
Acceleration	10 m/s ²
Flame resistance	DIN EN 50265
Resistance to oil	according to VDE 0472 Part 803
Other resistance	Highly resistant to acids, alkaline solutions and solvents
Special properties	Silicone-free
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation) 80 °C (in acc. with UL)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-25 °C ... 80 °C

Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

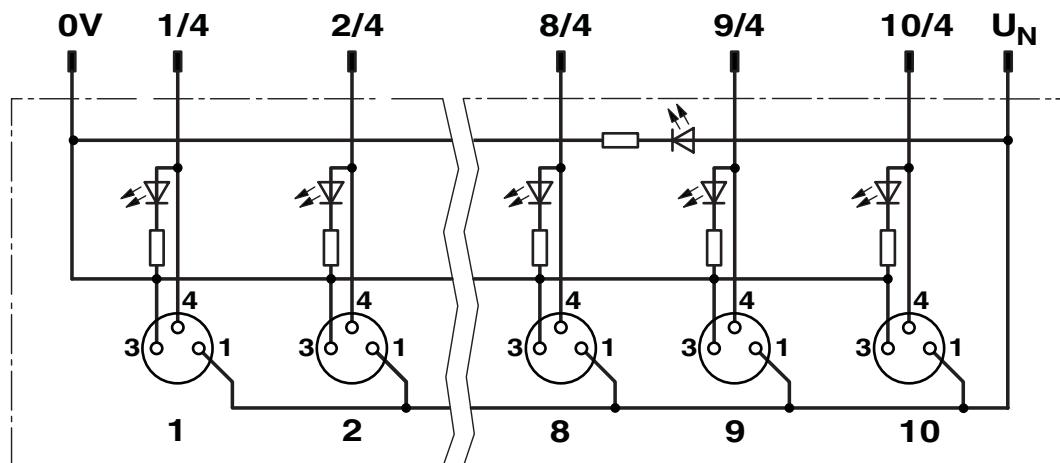
1197216

<https://www.phoenixcontact.com/us/products/1197216>

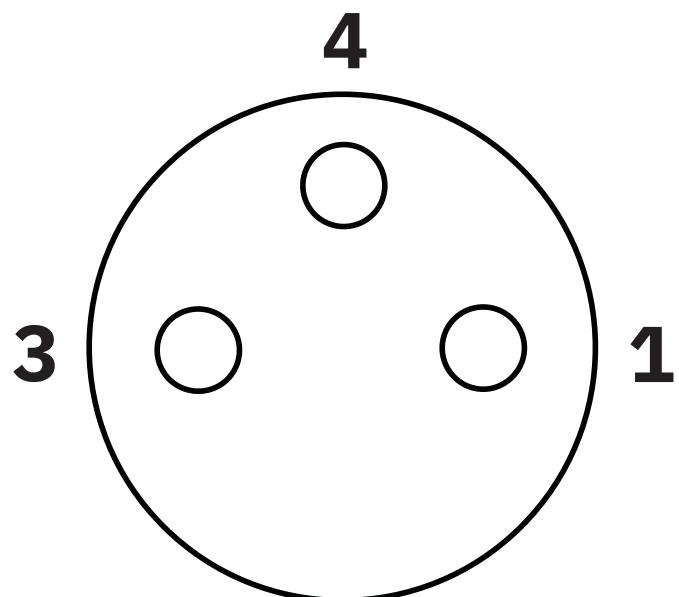


Drawings

Circuit diagram



Schematic diagram



M8 slot, socket, 3-pos.

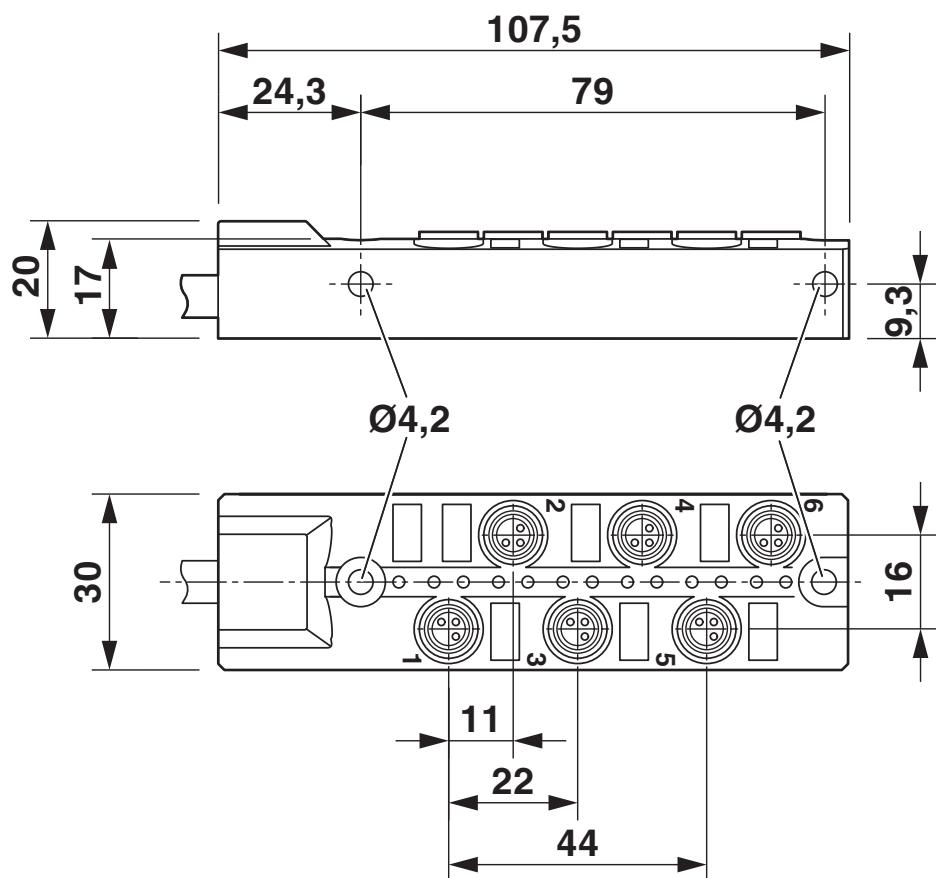
SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



Dimensional drawing



SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1197216>

UL Recognized	
Approval ID: FILE E 118976	
Nominal voltage U_N	Nominal current I_N
24 V	-

cUL Recognized	
Approval ID: FILE E 118976	
Nominal voltage U_N	Nominal current I_N
24 V	-

cULus Recognized

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



Classifications

ECLASS

ECLASS-11.0	27440108
ECLASS-12.0	27440108
ECLASS-13.0	27440108

ETIM

ETIM 9.0	EC002585
----------	----------

UNSPSC

UNSPSC 21.0	31251500
-------------	----------

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box

1197216

<https://www.phoenixcontact.com/us/products/1197216>



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box



1197216

<https://www.phoenixcontact.com/us/products/1197216>

Accessories

UCT-TM 6 - Marker for terminal blocks

0828736

<https://www.phoenixcontact.com/us/products/0828736>

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60



PROT-M8 - Screw plug

1682540

<https://www.phoenixcontact.com/us/products/1682540>

An M8 screw plug for the unoccupied M8 sockets of the sensor/actuator cable, boxes and flush-type connectors



SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box



1197216

<https://www.phoenixcontact.com/us/products/1197216>

WIREFOX-D 40 - Stripping tool

1212161

<https://www.phoenixcontact.com/us/products/1212161>



Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

WIREFOX-D 11 - Stripping tool

1212160

<https://www.phoenixcontact.com/us/products/1212160>



Stripping tool, for stripping multicore signal, control and fiberglass wires of Ø 2.5 - 11 mm. Insulation thickness up to 1 mm

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box



1197216

<https://www.phoenixcontact.com/us/products/1197216>

WIREFOX 2,5 - Stripping tool

1212368

<https://www.phoenixcontact.com/us/products/1212368>



Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm², self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm² stranded/1.5 mm² solid

TSD 02 SAC - Torque screwdriver

1208487

<https://www.phoenixcontact.com/us/products/1208487>



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

SACB- 6/3-L- 5,0PUR-M8 HD - Distributor box



1197216

<https://www.phoenixcontact.com/us/products/1197216>

SAC BIT M8-D10 - Tool

1208461

<https://www.phoenixcontact.com/us/products/1208461>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

SACC BIT M8-D12 - Tool

1208474

<https://www.phoenixcontact.com/us/products/1208474>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com