

1197338
<https://www.phoenixcontact.com/us/products/1197338>

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: 8, number of positions: 3, coding: A, slot assignment: single, status display: Yes, pnp; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 20 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	1197338
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF40
Product key	BF3BCA
GTIN	4063151256241
Weight per piece (including packing)	2,070 g
Weight per piece (excluding packing)	1.953 g
Customs tariff number	85444290
Country of origin	DE

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	8
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- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

	7 / 4 (A) = BK
	8 / 4 (A) = VT
	1-8 / 1 (+ 24 V) = BN
	1-8 / 3 (0 V) = BU

Signaling

Status display present	Yes
------------------------	-----

Dimensions

Dimensional drawing	
Width	30 mm
Height	20 mm
Length	129.5 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	20 m
--------------	------

PUR/PVC black [PUR]

Dimensional drawing	
Cable weight	92 kg/km
UL AWM Style	20549
Number of positions	10
Shielded	no

SACB- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

Cable type	PUR/PVC black [PUR]
Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor cross section	8x 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	7.90 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, black, violet
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	60 mm
Smallest bending radius, movable installation	79 mm
Max. bending cycles	1500000
Bending radius	79 mm
Traversing path	2 m
Traversing rate	2 m/s
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- 8/3-L-20,0PUR-M8 HD - Distributor box

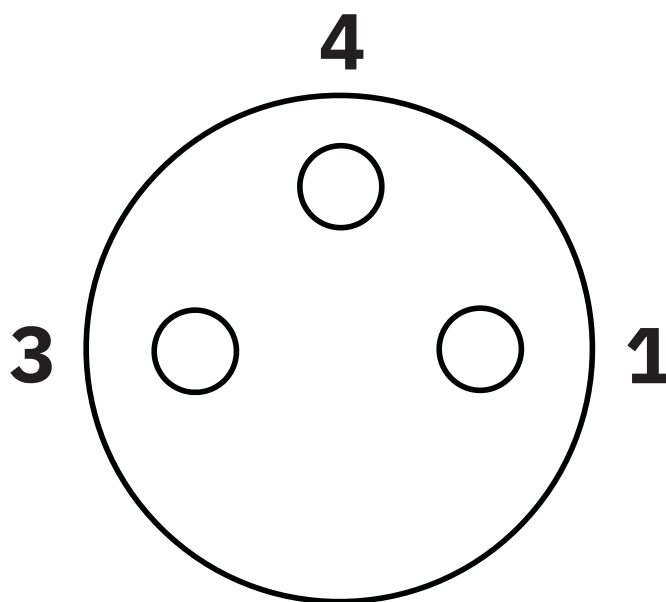
1197338

<https://www.phoenixcontact.com/us/products/1197338>



Drawings

Schematic diagram



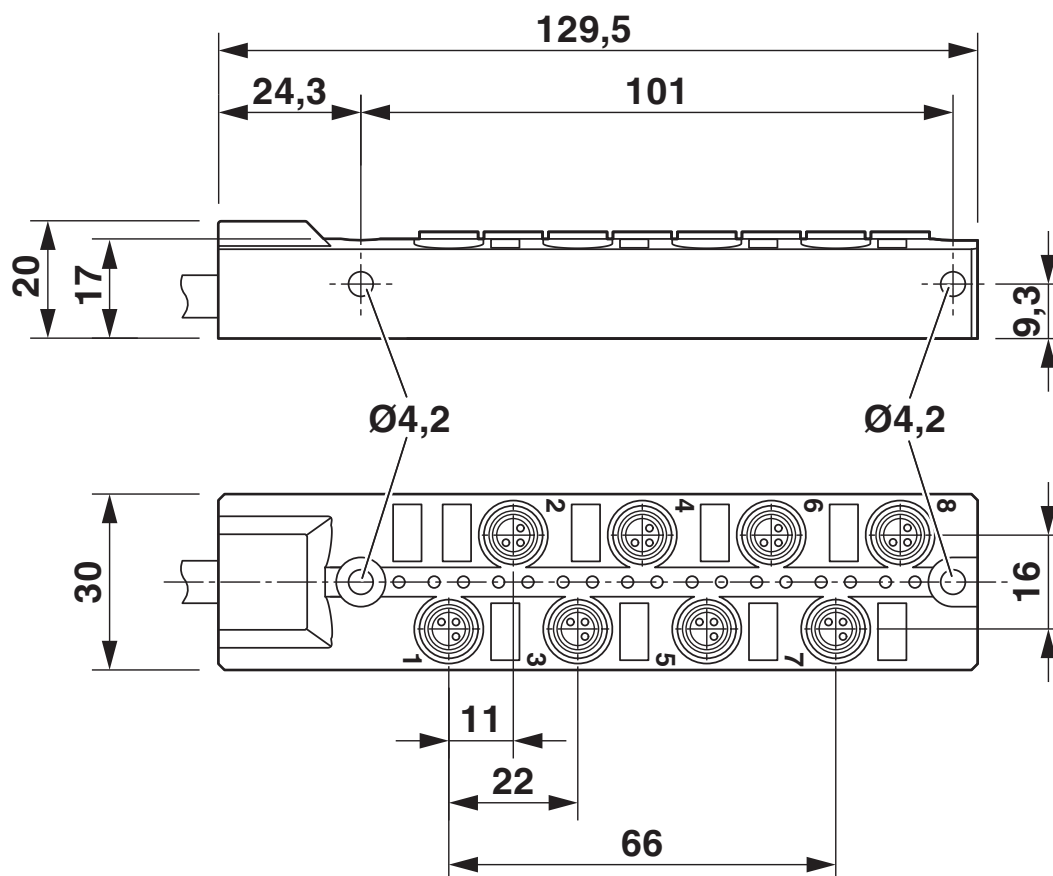
M8 slot, socket, 3-pos.

SACB- 8/3-L-20,0PUR-M8 HD - Distributor box

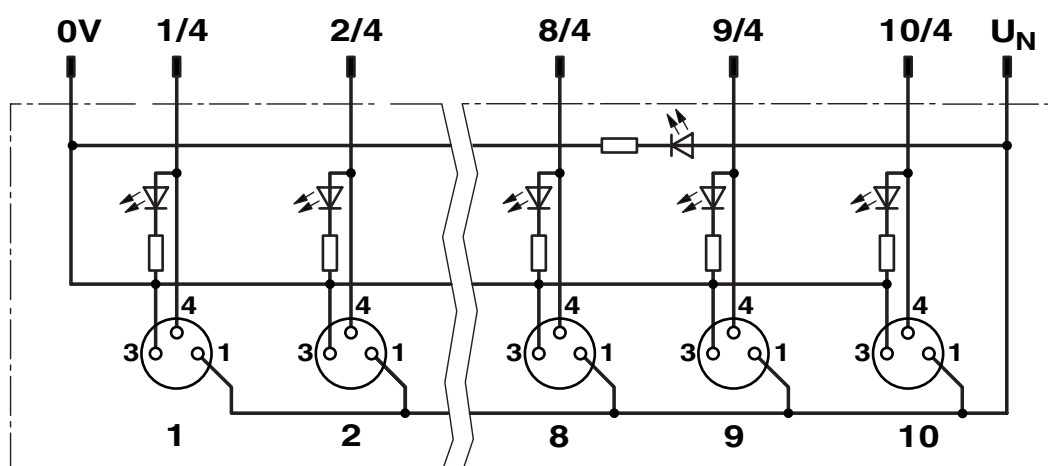
1197338

<https://www.phoenixcontact.com/us/products/1197338>

Dimensional drawing



Circuit diagram



SACB- 8/3-L-20,0PUR-M8 HD - Distributor box





1197338

<https://www.phoenixcontact.com/us/products/1197338>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1197338>

 UL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	-	-	-

 cUL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	-	-	-

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

SACB- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

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- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

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- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

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- 8/3-L-20,0PUR-M8 HD - Distributor box

1197338

<https://www.phoenixcontact.com/us/products/1197338>



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- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

WIREFOX-D 13 - Stripping tool

1212162

<https://www.phoenixcontact.com/us/products/1212162>



Stripping tool, for stripping installation lines of \varnothing 8 - 13 mm , e.g. NYM 3 x 1.5 mm² to 5 x 2.5 mm², single line stripping 0.2 mm² - 4 mm² , with longitudinal cut blade and sliding knife

WIREFOX-MP VDE - Stripping tool

1212528

<https://www.phoenixcontact.com/us/products/1212528>



Multifunction stripping tool, for removing the jacket from cables with a diameter of 8 to 13 mm, for stripping cables with a cross section of 0.2 to 10 mm², with full-fledged diagonal cutter, VDE 1000 V AC/1500 V DC tested

SACB- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

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 mm, 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- 8/3-L-20,0PUR-M8 HD - Distributor box



1197338

<https://www.phoenixcontact.com/us/products/1197338>

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