

1680911

https://www.phoenixcontact.com/us/products/1680911

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Sensor/actuator box, connection method: M12 socket Plastic, number of slots: 6, number of positions: 5, coding: A - standard, slot assignment: Double, status display: No, Universal; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 10 m, shielding: no

Your advantages

- · Safety in the field, thanks to robust housing and high degree of protection
- · Save space: distributor box with double occupancy for two sensors in one slot

Commercial Data

Item number	1680911
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	00
Product Key	BF3CBA
Catalog Page	Page 114 (PC-2009)
GTIN	4017918171216
Weight per Piece (including packing)	1,641.3 g
Weight per Piece (excluding packing)	1,641.3 g
Customs tariff number	85444290
Country of origin	PL



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Technical Data

Product properties

Product type	Distributor boxes with M8 to M12 slots
Number of positions	5
Number of slots	6
Coding	A - standard

Material specifications

Color	green
Flammability rating according to UL 94	V0
Material of threaded sleeve	PA
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA
O-ring material	NBR
Housing material	PA

Dimensions

Dimensional drawing	128,5 1 i
Width	54 mm
Height	19 mm
Length	129 mm

Connection data

Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	1 / 2 (B) = GYPK
	2 / 4 (A) = GN
	2 / 2 (B) = RDBU
	3 / 4 (A) = YE
	3 / 2 (B) = WHGN
	4 / 4 (A) = GY
	4 / 2 (B) = BNGN
	5 / 4 (A) = PK
	5 / 2 (B) = WHYE
	6 / 4 (A) = RD



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	6 / 2 (B) = YEBN
	1-6 / 1 (+ 120 V) = BN
	1-6 / 3 (0 V) = BU
	1-6 / 5 (PE) = GNYE
D signaling	
Status display present	No
ectrical properties	
Max. operating voltage U _{max}	135 V
Nominal voltage U _N	120 V
Rated current, total	12 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A
able / line	
Cable length	10 m
PUR/PVC black [PUR]	
Cable weight	150.9 kg/km
UL AWM Style	20549
Number of positions	15
Shielded	no
Cable type	PUR/PVC black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	12x 0.5 mm² (Signal line)
	3x 1 mm² (power line)
Wire diameter incl. insulation	1.5 mm ±0.1 mm (Signal line)
	2.1 mm ±0.1 mm (power line)
External cable diameter	9.4 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, green/yellow, white, green, yellow, gray, pink, red gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown
Thickness, insulation	≥ 0.15 mm (Inner sheath)
Overall twist	≥ 0.76 mm (Outer cable sheath)
	Wires twisted in layers
Nominal voltage, cable	300 V 2000 V
Test voltage Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	10 x D



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Max. bending cycles	1500000
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)

Ambient conditions

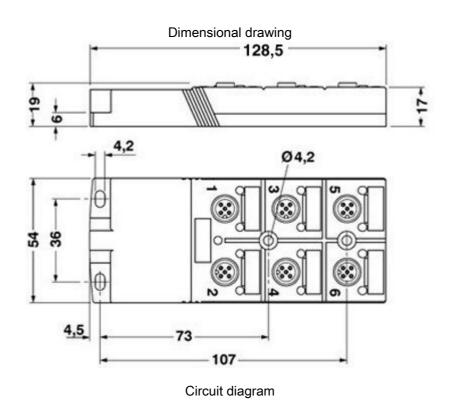
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 75 °C

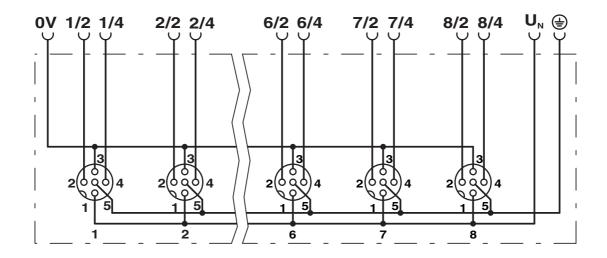


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Drawings



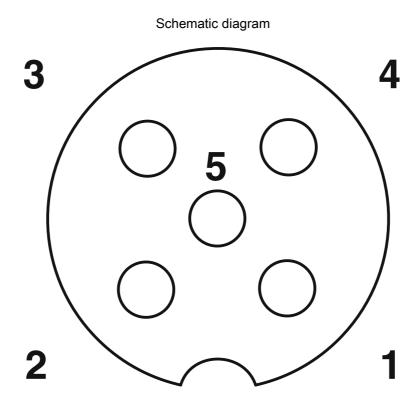




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M12 slot, socket, 5-pos.



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Classifications

ECLASS

ECLASS-9.0	27440108
ECLASS-11.0	27440108



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Accessories

Screw plug

Screw plug - PROT-M12 - 1680539

https://www.phoenixcontact.com/us/products/1680539



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

Zack marker strip

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128 https://www.phoenixcontact.com/us/products/2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5



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Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429 https://www.phoenixcontact.com/us/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Tool

Tool - SAC BIT M12-D15 - 1208432

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Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive



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Tool

Tool - SACC BIT M12-D20 - 1208445

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Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive $\,$



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