

1452974

https://www.phoenixcontact.com/us/products/1452974

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: M12-SPEEDCON-socket Plastic, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: No, Universal; master cable connection: Spring-cage connection 180°, shielding: no

Your advantages

- · Safety in the field, thanks to molded housing and high degree of protection
- · Save space: distributor box with double occupancy for two sensors in one slot
- · Save time, thanks to installation with SPEEDCON fast locking system
- · Flexible: distributor box with connector hood for on-site assembly

Commercial data

em number 1452974			
Packing unit	1 pc		
Minimum order quantity	1 pc		
Sales key	BF41		
Product key	BF3CBC		
Catalog page	Page 262 (C-2-2019)		
GTIN	4046356553599		
Weight per piece (including packing)	222.1 g		
Weight per piece (excluding packing)	221.5 g		
Customs tariff number	85366990		
Country of origin	DE		



https://www.phoenixcontact.com/us/products/1452974



Technical data

Notes

General	When connecting the signal lines to the black PCB terminal blocks, please use a 0.4 x 2.0 mm screwdriver. The black PCB terminal blocks only require a minimal amount of operating force. Screwdriver: SZS 0,4X2,0 - 1205202 Using larger screwdrivers or excessive force may damage the PCB terminal blocks. When using ferrules, the wires can be inserted straight into the PCB terminal blocks without opening the clamping area.
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	5
Number of slots	8
Coding	A
LED	No

Electrical properties

Nominal voltage U _N	120 V AC
	120 V DC
Rated current, total	12 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

Connection data

Conductor connection

Sensor/actuator connection system	M12-SPEEDCON-socket		
Conductor cross section Flexible signal line	0.2 mm ² 0.5 mm ²		
Conductor cross section Flexible power supply	0.2 mm² 1.5 mm²		
Connection cross section AWG Flexible signal line	24 20		
Connection cross section AWG Flexible power supply	24 16		
Stripping length Signal line	6 mm		
Stripping length Power supply	10 mm		
Stripping length of the sheath	50 mm (Master cable)		
Tightening torque, cover screw	1 Nm		
Tightening torque slot sensor/actuator cable	0.4 Nm		



1452974

https://www.phoenixcontact.com/us/products/1452974

Tightening torque of mounting screw for fixing the housing	0.5 Nm	
Tightening torque, union nut	2.5 Nm	
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	
	6 / 2 (B) = YEBN	
	7 / 4 (A) = BK	
	7 / 2 (B) = WHGY	
	8 / 4 (A) = VT	
	8 / 2 (B) = GYBN	
	1-8 / 1 (+ 120 V) = BN	
	1-8 / 3 (0 V) = BU	
	1-8 / 5 (PE) = GNYE	
ignaling		
Status display present	No	
Dimensions		
Dimensional drawing		
	148.8 04.5 04.5 04.5 04.5 07.3 107	
Width	54 mm	

Material specifications

Height

Length

Material Threaded sleeve	PBT
Material Housing	PBT
Material Molding compound	PUR
Flammability rating according to UL 94	V0

42 mm

149 mm



1452974

https://www.phoenixcontact.com/us/products/1452974

	Seal material O-ring	NBR
	Contact material	Cu alloy
	Contact surface material	gold-plated
	Contact carrier material	PA
Ca	able/line	
	External cable diameter	7 mm 12 mm

Spring-cage connection

Environmental and real-life conditions

Ambient conditions

Connection method

, and the control of		
Degree of protection	IP65	
	IP67	
Ambient temperature (operation)	-25 °C 80 °C	

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

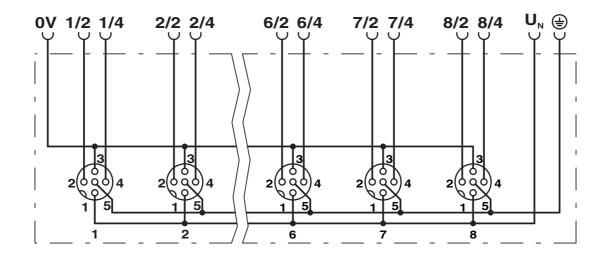


1452974

https://www.phoenixcontact.com/us/products/1452974

Drawings

Circuit diagram

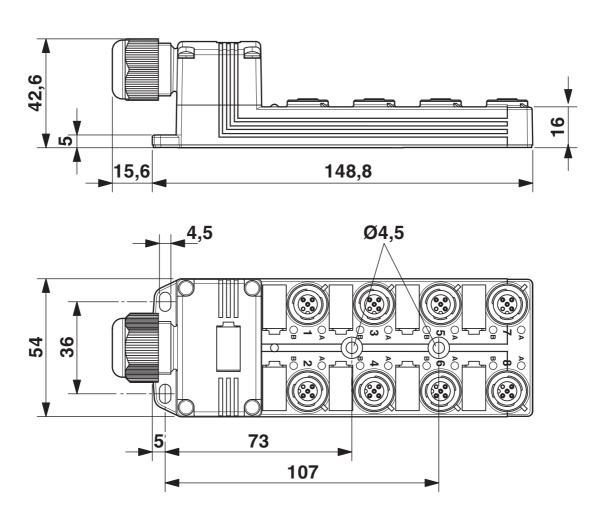




1452974

https://www.phoenixcontact.com/us/products/1452974

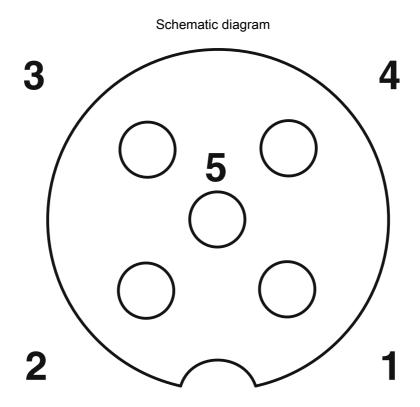
Dimensional drawing





1452974

https://www.phoenixcontact.com/us/products/1452974



M12 slot, socket, 5-pos.



1452974

https://www.phoenixcontact.com/us/products/1452974

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1452974

CUL Recognized Approval ID: FILE E 118976				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	120 V	-	-	-

UL Recognized Approval ID: FILE E 118976					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		120 V	-	-	-

ERC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00511

cULus Recognized



1452974

https://www.phoenixcontact.com/us/products/1452974

Classifications

ECLASS

202.100				
	ECLASS-11.0	27440111		
	ECLASS-12.0	27440111		
	ECLASS-13.0	27440111		
ETIM				
	ETIM 9.0	EC003558		
UNSPSC				
	UNSPSC 21.0	31251500		



1452974

https://www.phoenixcontact.com/us/products/1452974

Environmental product compliance

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
nvironment 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%



1452974

https://www.phoenixcontact.com/us/products/1452974

Accessories

SACB-16X0,5/3X1,0-50,0 PUR - Master cable ring

1503373

https://www.phoenixcontact.com/us/products/1503373



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., $16 \times 0.50 \text{ mm}^2$ and $3 \times 1.00 \text{ mm}^2$, length: 50 m

SACB-16X0,5/3X1,0-200,0 PUR - Master cable ring

1559893

https://www.phoenixcontact.com/us/products/1559893



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 $\,\text{mm}^2$ and 3 x 1.00 $\,\text{mm}^2$, length: 200 m on drum



1452974

https://www.phoenixcontact.com/us/products/1452974

SACB-16X0,5/ 3X1,0-50,0 VPUR - Master cable ring

1430938

https://www.phoenixcontact.com/us/products/1430938



Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 $\,\text{mm}^2$ and 3 x 1.00 $\,\text{mm}^2$, length: 50 m

PROT-MS SCO - Screw plug

1553129

https://www.phoenixcontact.com/us/products/1553129



M12 screw plug with fast-locking system for unoccupied M12 female connectors of sensor/actuator cables, boxes, and flush-type connectors



1452974

https://www.phoenixcontact.com/us/products/1452974

UC-EM (17,5X9) - Snap-in markers

0827490

https://www.phoenixcontact.com/us/products/0827490



Snap-in markers, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID, BLUEMARK ID COLOR, BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, lettering field size: 17. 5 x 9 mm, Number of individual labels: 20

UC-EM (17,5X9) CUS - Snap-in markers

0828238

https://www.phoenixcontact.com/us/products/0828238

Snap-in markers, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 17. 5 x 9 mm, Number of individual labels: 20





1452974

https://www.phoenixcontact.com/us/products/1452974

UCT-EM (17,5X9) - Snap-in markers

0801491

https://www.phoenixcontact.com/us/products/0801491



Snap-in markers, 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, lettering field size: 17.5 x 9 mm, Number of individual labels: 24

UCT-EM (17,5X9) CUS - Snap-in markers

0801575

https://www.phoenixcontact.com/us/products/0801575

UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications





1452974

https://www.phoenixcontact.com/us/products/1452974

UC-EM (17,5X9) YE - Snap-in markers

0827494

https://www.phoenixcontact.com/us/products/0827494



Snap-in markers, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, lettering field size: 17.5 x 9 mm, Number of individual labels: 20

UC-EM (17,5X9) YE CUS - Snap-in markers

0828239

https://www.phoenixcontact.com/us/products/0828239



Snap-in markers, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 17.5 x 9 mm, Number of individual labels: 20



1452974

https://www.phoenixcontact.com/us/products/1452974

UCT-EM (17,5X9) YE - Snap-in markers

0801492

https://www.phoenixcontact.com/us/products/0801492



Snap-in markers, Sheet, yellow, 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, lettering field size: 17. 5 x 9 mm, Number of individual labels: 24

UCT-EM (17,5X9) YE CUS - Snap-in markers

0801576

https://www.phoenixcontact.com/us/products/0801576

UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications





1452974

https://www.phoenixcontact.com/us/products/1452974

A 0,5 - 6 - Ferrule

3200218

https://www.phoenixcontact.com/us/products/3200218



Ferrule, color: silver

A 0,75-10 - Ferrule

3200234

https://www.phoenixcontact.com/us/products/3200234



Ferrule, color: silver



1452974

https://www.phoenixcontact.com/us/products/1452974

A 1 -10 - Ferrule

3200250

https://www.phoenixcontact.com/us/products/3200250



Ferrule, color: silver

A 1,5-10 - Ferrule

3200276

https://www.phoenixcontact.com/us/products/3200276



Ferrule, sleeve length: 10 mm, color: silver



1452974

https://www.phoenixcontact.com/us/products/1452974

UTA 136 - DIN rail adapter

2853996

https://www.phoenixcontact.com/us/products/2853996

Universal DIN rail adapter, for screwing on switchgear



TSD 04 SAC - Torque screwdriver

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



1452974

https://www.phoenixcontact.com/us/products/1452974

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits



1452974

https://www.phoenixcontact.com/us/products/1452974

SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/us/products/1208432



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

SACC BIT M12-D20 - Tool

1208445

https://www.phoenixcontact.com/us/products/1208445

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





1452974

https://www.phoenixcontact.com/us/products/1452974

SZK PZ2 VDE - Screwdriver

1206463

https://www.phoenixcontact.com/us/products/1206463



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

TSD 25 SAC - Torque screwdriver

1212315

https://www.phoenixcontact.com/us/products/1212315



Torque screwdriver, with preset torque of 2.5 Nm and 4 mm hexagonal drive for the pressure nut of the connector hood



1452974

https://www.phoenixcontact.com/us/products/1452974

TSD-M 3NM - Torque screwdriver

1212225

https://www.phoenixcontact.com/us/products/1212225



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1. 2 - 3 Nm

SAC BIT HOOD-W 24 - Tool

1212486

https://www.phoenixcontact.com/us/products/1212486

Nut for assembling pressure nuts with 24 mm wrench size, for 4 mm hexagonal drive





1452974

https://www.phoenixcontact.com/us/products/1452974

SF-BIT-PZ 2-50 - Screw insert

1212592

https://www.phoenixcontact.com/us/products/1212592



Screw bit, PZ crosshead, E6.3-1/4" drive, size: PZ 2 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

SZS 0,4X2,0 - Screwdriver

1205202

https://www.phoenixcontact.com/us/products/1205202



Micro screwdriver, bladed, size: $0.4 \times 2.0 \times 60$ mm, 2-component grip, with non-slip grip and twist cap

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