

# SAC-3P-M12Y/2XM12FS B PE - Y distributor



1683413

<https://www.phoenixcontact.com/us/products/1683413>

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Y distributor, 4-position, Plug straight M12, coding: A, on Socket straight M12, coding: A, PIN 2+4 bridged and Socket straight M12, coding: A, PIN 2+4 bridged

## Commercial data

Item number	1683413
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BF10
Product key	BF1GAB
Catalog page	Page 252 (C-2-2019)
GTIN	4017918164171
Weight per piece (including packing)	28.9 g
Weight per piece (excluding packing)	28 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

### Notes

General	with center distance of 18 mm, suitable for molded connectors and unshielded connectors that can be assembled with QUICKON IDC terminal block connection technology and a connection range of 0.14 mm <sup>2</sup> to 0.34 mm <sup>2</sup>
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### Product properties

Product type	Y-distributor
Number of positions	4
No. of cable outlets	2
Shielded	no
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

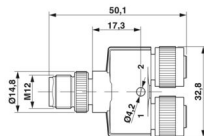
### Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC 60 V DC
Nominal current I <sub>N</sub>	4 A

### Signaling

Status display	No
Status display present	No

### Dimensions

Dimensional drawing	
Width	33 mm
Height	14.8 mm
Length	50.1 mm
Center distance	18 mm

### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing

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Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

## Connector

### Connection 1

Type	Plug straight M12
Coding type	A

### Connection 2

Type	Socket straight M12
Coding type	A

### Connection 3

Type	Socket straight M12
Coding type	A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

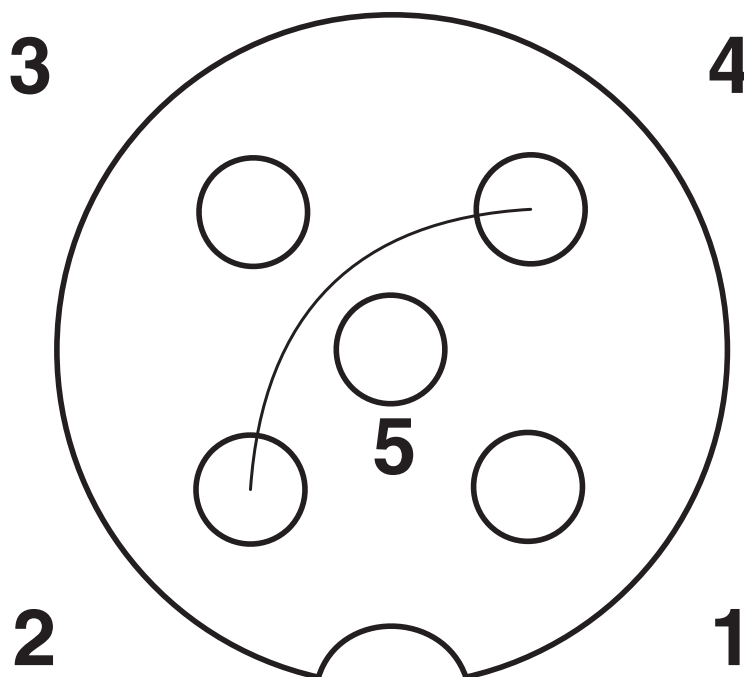
## Standards and regulations

### M12

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

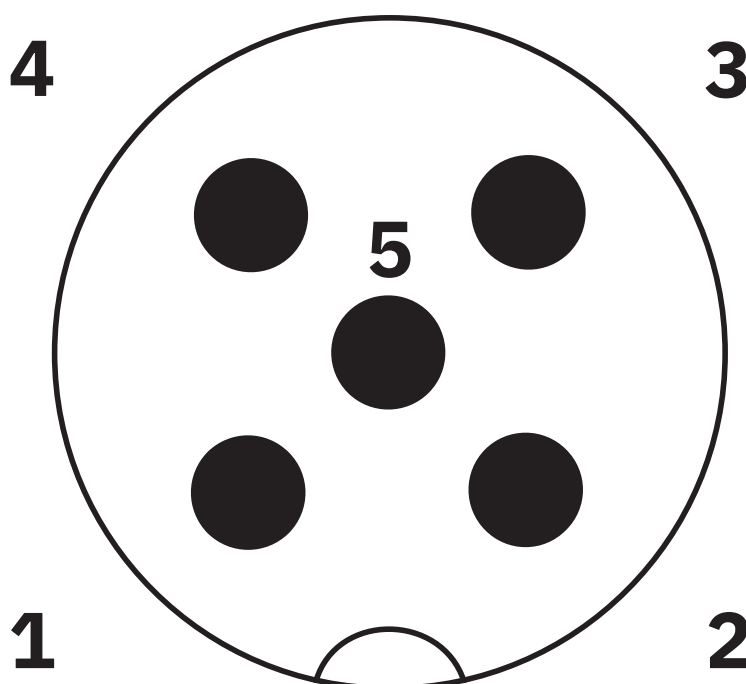
## Drawings

Schematic diagram



Connector pin assignment M12 socket, 3-pos., bridged, with PE, A-coded, female side view

Schematic diagram



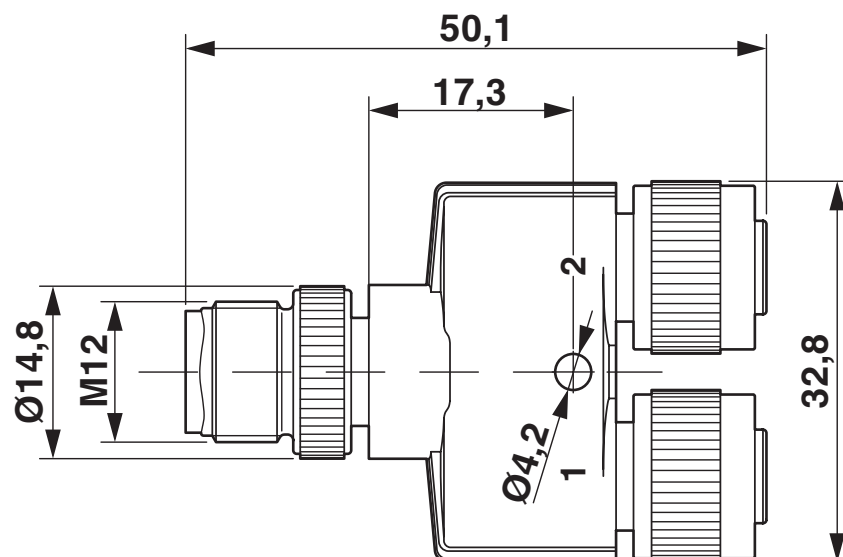
Pin assignment M12 male connector, 5-pos., A-coded, male side

# SAC-3P-M12Y/2XM12FS B PE - Y distributor

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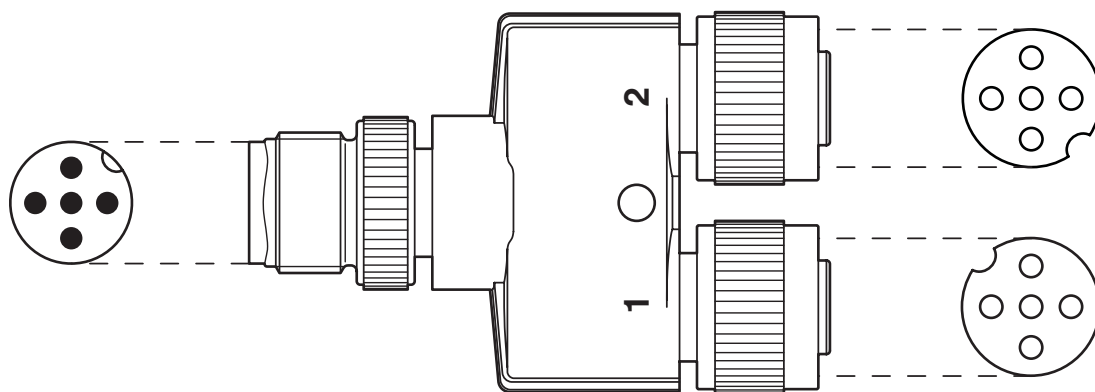
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Dimensional drawing



M12 Y distributor

Schematic diagram



Layout of connector pin assignments

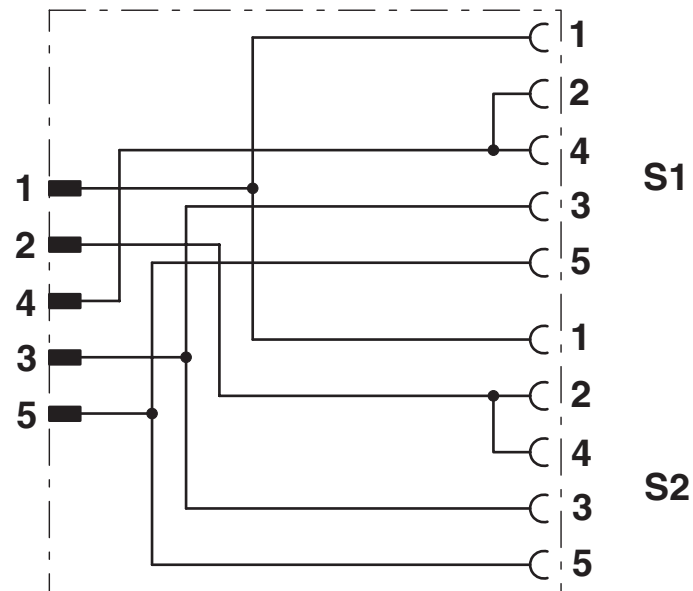
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Circuit diagram



# SAC-3P-M12Y/2XM12FS B PE - Y distributor




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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1683413>





**EAC**  
Approval ID: RU C-DE.AI30.B.01102



**EAC**  
Approval ID: EAC-Zulassung

	<b>UL Listed</b> Approval ID: E221474			
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
		30 V	4 A	-

	<b>cUL Listed</b> Approval ID: E221474			
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
		30 V	4 A	-



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

**cULus Listed**

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## Classifications

### ECLASS

ECLASS-11.0	27440106
ECLASS-12.0	27440106
ECLASS-13.0	27440106

### ETIM

ETIM 9.0	EC002925
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### UNSPSC

UNSPSC 21.0	31251500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	9cf70188-18d3-446d-8ee6-c500a05cf417

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## Accessories

### PROT-M12 - Screw plug

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

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### PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/us/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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## PROT-M12 MS-PA-CHAIN - Screw plug

1430899

<https://www.phoenixcontact.com/us/products/1430899>

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



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## PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

<https://www.phoenixcontact.com/us/products/1430873>

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



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## 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

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## 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

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