

# SACC-CI-M12MSB-5CON-L180 THR - Contact carrier



1552230

<https://www.phoenixcontact.com/us/products/1552230>

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Contact carrier, 5-position, Plug, straight, M12, coding: B , PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%)  
item no.: 1240007

## Your advantages

- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- Additional gasket for the device when not plugged in

## Commercial data

Item number	1552230
Packing unit	1 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGM
Catalog page	Page 257 (C-2-2013)
GTIN	4046356162098
Weight per piece (including packing)	4.67 g
Weight per piece (excluding packing)	4.11 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Notes

General	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
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### Product properties

Product type	Contact insert
Number of positions	5
Application	Signal
Seal present	yes
Shielded	yes
Coding	B
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	60 V
Nominal current $I_N$	4 A

### Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM / EPDM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6

### Connector

#### Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	B

### Cable/line

# SACC-CI-M12MSB-5CON-L180 THR - Contact carrier



1552230

<https://www.phoenixcontact.com/us/products/1552230>

Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (Cable, flexible installation)

## Mechanical properties

### Mechanical data

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

### Ambient conditions

Degree of protection (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67 (correctly plugged in and locked)
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

## Standards and regulations

### M12

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

## Mounting

Mounting type	PCB mounting
Connection method	THR solder connection

## Packaging specifications

Type of packaging	Tray
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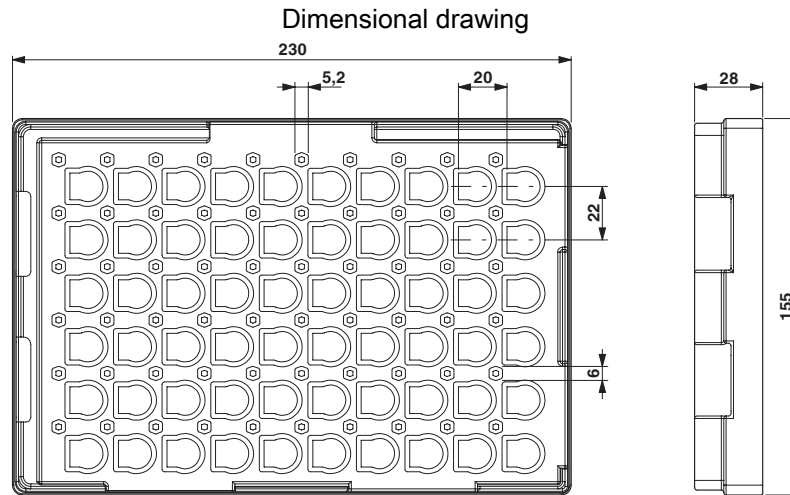
# SACC-CI-M12MSB-5CON-L180 THR - Contact carrier



1552230

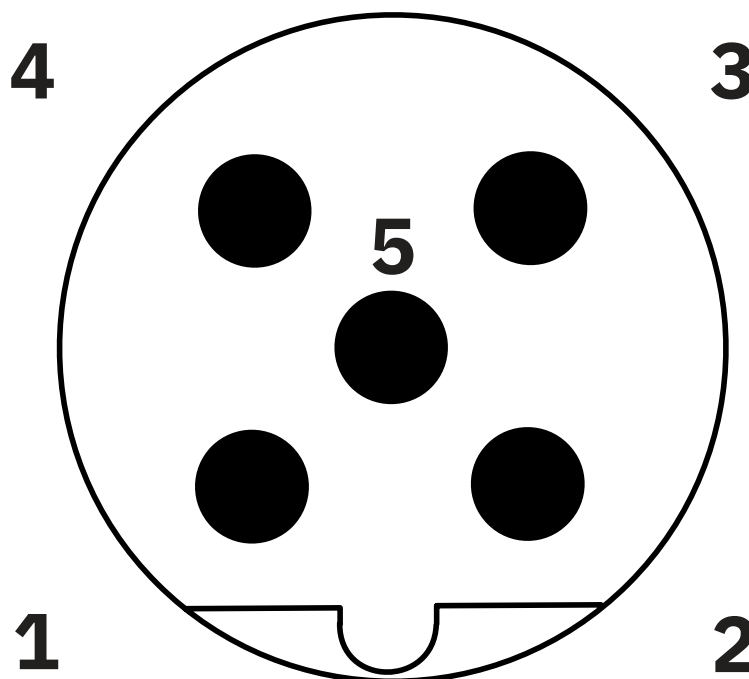
<https://www.phoenixcontact.com/us/products/1552230>

## Drawings



THR tray packaging

## Schematic diagram



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

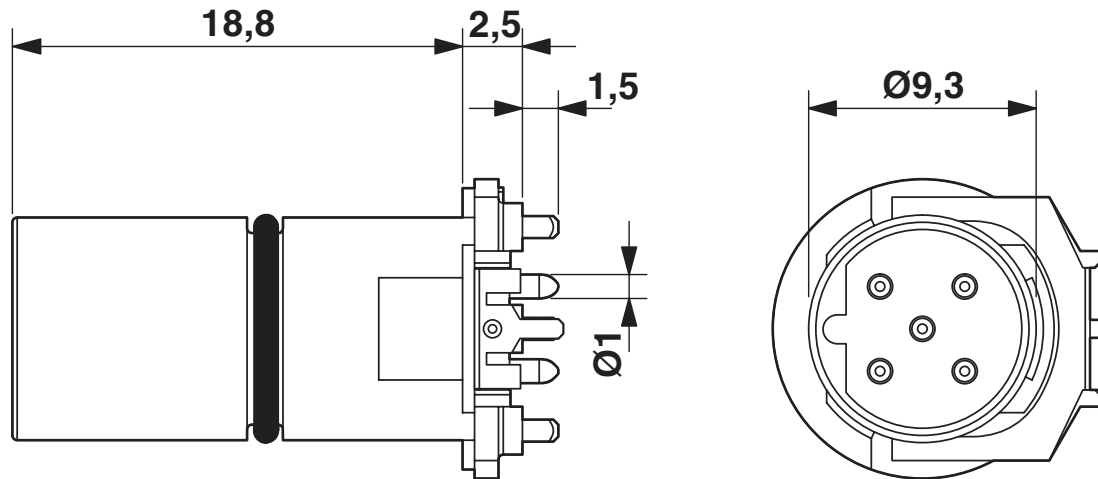
# SACC-CI-M12MSB-5CON-L180 THR - Contact carrier



1552230

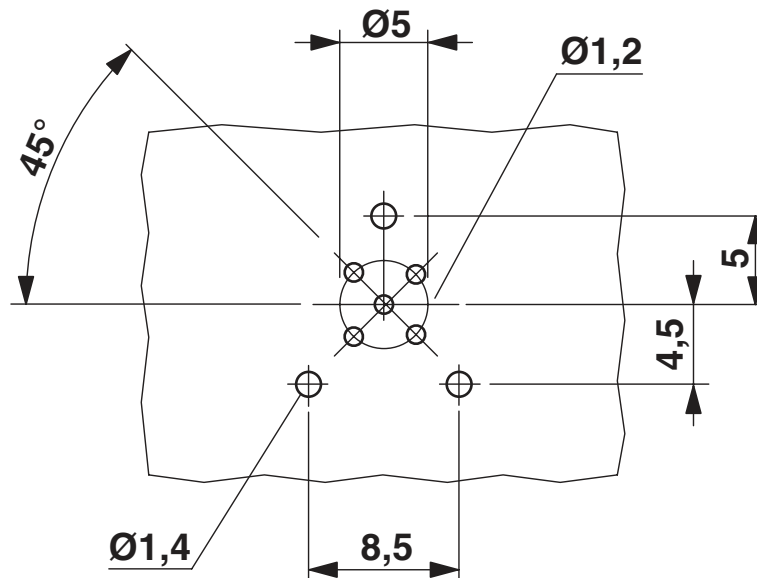
<https://www.phoenixcontact.com/us/products/1552230>

Dimensional drawing



Dimensional drawing

Drilling plan/solder pad geometry



Drilling diagram

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1552230

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1552230>

 <b>cUL Recognized</b> Approval ID: E118976-20100522				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	- 22	-

 <b>UL Recognized</b> Approval ID: E118976-20100522				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	- 22	-

 <b>EAC</b> Approval ID: B.01687	
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<b>cULus Recognized</b>	
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# SACC-CI-M12MSB-5CON-L180 THR - Contact carrier



1552230

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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 8.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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## Accessories

### 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 FS-M - Sealing cap

1430488

<https://www.phoenixcontact.com/us/products/1430488>



M12 metal 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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## SACC-CIM12MSB5PL180THRSAMPLE - Contact carrier

1413552

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Sensor/actuator flush-type plug, 5-pos., B-coded, with straight THR solder connection, only contact insert

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## SACC-M12-SCO PLUG - Housing screw connection

1551493

<https://www.phoenixcontact.com/us/products/1551493>



Housing screw connection, Plug, M12-SPEEDCON, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237430

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## SACC-DSIV-M12-PLUG - Housing screw connection

1416145

<https://www.phoenixcontact.com/us/products/1416145>



Housing screw connection, Plug, M12, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239108

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## SACC-M12-SCO PLUG L90 - Housing screw connection

1436709

<https://www.phoenixcontact.com/us/products/1436709>



Housing screw connection, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239632

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## SACC-BP-M-M12/M15-6-THR - Housing screw connection

1413997

<https://www.phoenixcontact.com/us/products/1413997>



Housing screw connection, Plug, M12, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239050

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## SACC-BP-M-M12/M15-7-THR - Housing screw connection

1413996

<https://www.phoenixcontact.com/us/products/1413996>



Housing screw connection, Plug, M12, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239049

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## SACC-BP-M-M12/M15-6-THR SCO - Housing screw connection

1413999

<https://www.phoenixcontact.com/us/products/1413999>



Housing screw connection, Plug, M12-SPEEDCON, Rear mounting, M15 x 1,  
Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%)  
item no.: 1239052

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## SACC-BP-M-M12/M15-7-THR SCO - Housing screw connection

1413998

<https://www.phoenixcontact.com/us/products/1413998>



Housing screw connection, Plug, M12-SPEEDCON, Rear mounting, M15 x 1,  
Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%)  
item no.: 1239051

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## SACC-M12 PLUG PRESS - Housing screw connection

1437892

<https://www.phoenixcontact.com/us/products/1437892>



Housing screw connection, Plug, M12, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239688

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## SACC-DSIV-M12-PLUG-9 THR - Housing screw connection

1417984

<https://www.phoenixcontact.com/us/products/1417984>



Housing screw connection, Plug, M12, Front mounting, M14 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239180

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## SACC-BP-M-M12-THR PP - Housing screw connection

1027661

<https://www.phoenixcontact.com/us/products/1027661>



Housing screw connection, Plug, M12-Push-Pull, Rear mounting, M15 x 1, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

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## SACC-FP-M-M12-THR PP - Housing screw connection

1027679

<https://www.phoenixcontact.com/us/products/1027679>



Housing screw connection, Plug, M12-Push-Pull, Front mounting, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

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