

SACC-CI-M12MSS-4CON-L180 TOR PE - Contact carrier



1418343
<https://www.phoenixcontact.com/us/products/1418343>

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Contact carrier, Universal, 4-position, Pin, straight, M12, coding: S, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239191

Your advantages

- For compact devices: transmit high power in a confined space
- 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	1418343
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGP
GTIN	4055626170688
Weight per piece (including packing)	10.828 g
Weight per piece (excluding packing)	10.316 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

Notes on operation	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
Application	Power
Sensor type	Universal
Number of positions	4
Seal present	yes
Shielded	no
Coding	S
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Data management status

Article revision	04
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Electrical properties

Rated surge voltage	6 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	630 V
Nominal current I_N	12 A

Connection data

Connection method	THR solder connection
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Interfaces

Signal type/category	Universal
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Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 4T

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Connector

Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Coding	S

Cable/line

Signal type/category	Universal
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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 ... 105 °C
	-40 °C ... 105 °C (without mechanical actuation)

Standards and regulations

M12

Standard designation	M12 connector
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Mounting

Mounting type	PCB mounting
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Packaging specifications

Type of packaging	Belt
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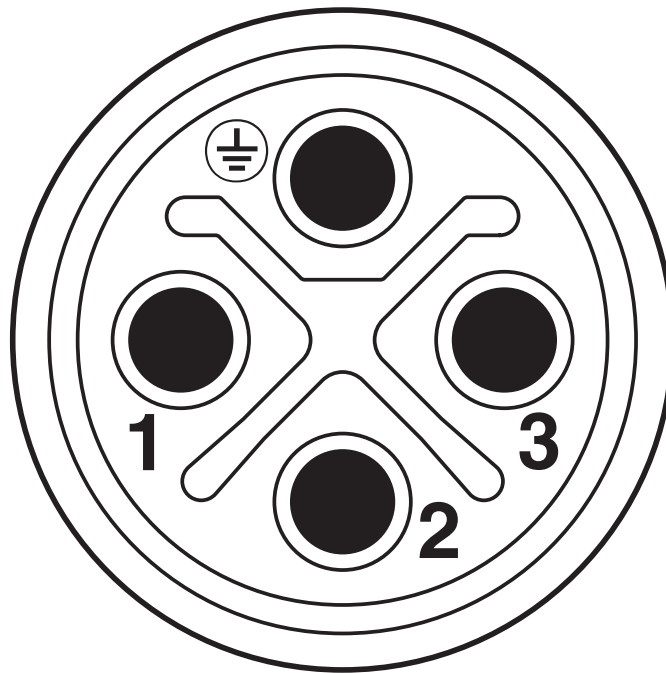


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Drawings

Schematic diagram



Connector pin assignment of M12 plug, 4-pos., S-coded, view of pin side


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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418343>

 cUL Recognized Approval ID: E468743-20190917				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	12 A	16 - 16	-

 UL Recognized Approval ID: E468743-20190917				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	12 A	16 - 16	-

cULus Recognized				
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Classifications

ECLASS

ECLASS-13.0	27440223
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ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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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	b7d84f32-d7e5-4beb-9c56-20a8d15e696a

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Accessories

SACC-CI-M12MSS-4CON-L180THR PE SP - Sample set

1420412

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Sample set, Universal, 4-position, Pin, straight, coding: S, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239308

SACC-M12-SCO PLUG - Housing screw connection

1551493

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Housing screw connection, Pin, 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

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

SACC-M12-SCO PLUG L90 - Housing screw connection

1436709

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Housing screw connection, M12-SPEEDCON, 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

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

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

1413996

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Housing screw connection, Pin, M12, Rear mounting, M15 x 1, THR solder connection, 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

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

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

1413998

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Housing screw connection, Pin, M12-SPEEDCON, Rear mounting, M15 x 1, THR solder connection, 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

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

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

1417984

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Housing screw connection, Pin, M12, Rear mounting, M14 x 1, THR solder connection, 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

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

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

1027679

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

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