

1441970
<https://www.phoenixcontact.com/us/products/1441970>

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Contact carrier, 12-position, Socket, straight, M12, coding: A, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239756

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	1441970
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGS
Catalog page	Page 256 (C-2-2013)
GTIN	4046356533089
Weight per piece (including packing)	5.39 g
Weight per piece (excluding packing)	5.38 g
Customs tariff number	85366990
Country of origin	DE

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	Signal
Number of positions	12
Seal present	yes
Shielded	no
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V
Nominal current I_N	1.5 A

Connection data

Connection method	THR solder connection
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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	Socket
Head cable outlet	straight
Head thread type	M12

SACC-CI-M12FS-12CON-L180 THR - Contact carrier



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Coding	A
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Cable/line

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
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Packaging specifications

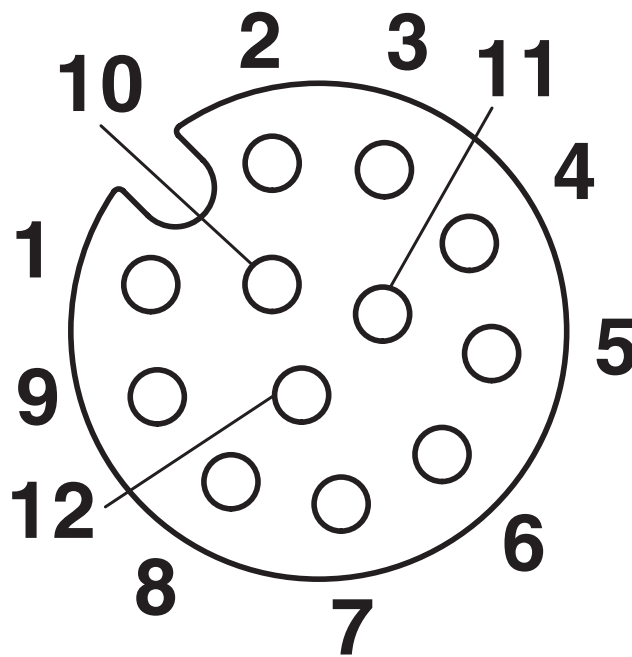
Type of packaging	Tray
Delivery state	with assembly pad

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Drawings


Schematic diagram




Pin assignment M12, 12-pos., female side view

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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1441970>

	UL Recognized Approval ID: E118976-20100522				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1.5 A	26 - 26	-

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Classifications

ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440116
ECLASS-13.0	27440223

ETIM

ETIM 9.0	EC003557
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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	c01dd241-1e49-4e15-9d14-2d73a80651ea

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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

PROT-M12 SH - Screw plug

1503302

<https://www.phoenixcontact.com/us/products/1503302>



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

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PROT-M12 FB - Screw plug

1555538

<https://www.phoenixcontact.com/us/products/1555538>



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

SACC-CIM12FS12PL180THRSHSAMPLE - Sample set

1413562

<https://www.phoenixcontact.com/us/products/1413562>



Sensor/actuator flush-type socket, 12-pos. with shroud, A-coded, with straight THR solder connection, contact insert only

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SACC-M12-SCO NUT - Housing screw connection

1552243

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Housing screw connection, Socket, M12-SPEEDCON, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237399

SACC-DSIV-M12-NUT - Housing screw connection

1416144

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Housing screw connection, Pin, M12, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239107

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SACC-M12-SCO NUT L 90 - Housing screw connection

1432460

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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.: 1237409

SACC-BP-F-M12/M15-6-THR - Housing screw connection

1414004

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Housing screw connection, Socket, M12, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239056

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

1414003

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Housing screw connection, Socket, M12, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239055

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

1414020

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Housing screw connection, Socket, 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.: 1239057

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

1414005

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Housing screw connection, Socket, 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.: 1237398

SACC-BP-F-M12/THR-1,0/1,8-9TIP - Housing screw connection

1419630

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M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.0 mm ... 1.8 mm thick front plates.

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SACC-BP-F-M12/THR-1,7/2,5-9TIP - Housing screw connection

1419631

<https://www.phoenixcontact.com/us/products/1419631>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.7 mm ... 2.5 mm thick front plates.

SACC-BP-F-M12/THR-2,4/3,2-9TIP - Housing screw connection

1419633

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M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 2.4 mm ... 3.2 mm thick front plates.

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SACC-BP-F-M12/THR-3,1/3,9-9TIP - Housing screw connection

1419634

<https://www.phoenixcontact.com/us/products/1419634>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 3.1 mm ... 3.9 mm thick front plates.

SACC-M12 NUT PRESS - Housing screw connection

1437889

<https://www.phoenixcontact.com/us/products/1437889>



Housing screw connection, Socket, M12, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237410

SACC-CI-M12FS-12CON-L180 THR - Contact carrier



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

1417989

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Housing screw connection, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239181

SACC-BP-F-M12-THR PP - Housing screw connection

1027662

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Housing screw connection, Socket, M12-Push-Pull, Rear mounting, M16, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

SACC-CI-M12FS-12CON-L180 THR - Contact carrier



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

1027678

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Housing screw connection, Socket, M12-Push-Pull, Front mounting, M14 x 1, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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