SACC-CIP-M12MST-4P SMD SH R32 - Contact carrier

1412017

https://www.phoenixcontact.com/pc/products/1412017

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Contact carrier, Power, 4-position, Plug, straight, M12, coding: T , PCB mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238962

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	1412017
Packing unit	100 pc
Minimum order quantity	100 pc
Product key	ABQBGD
GTIN	4046356992909
Weight per piece (including packing)	7.147 g
Weight per piece (excluding packing)	6.823 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.

Product properties

Product type	Contact insert
Sensor type	Power
Number of positions	4
Application	Power
Seal present	yes
Shielded	yes
Coding	T
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated voltage in acc. with IEC 61076-2-101	630 V
Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	63 V
Nominal current I_N	12 A

Interfaces

Signal type/category	Power

Material specifications

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

Connector

Connection 1

Head design	Plug

Head cable outlet	straight
Head thread type	M12
Coding	T

Cable/line

Signal type/category	Power

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67, when plugged in
Ambient temperature (operation)	-25 °C ... 105 °C (Plug / socket)
	-40 °C ... 105 °C (without mechanical actuation)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

Mounting

Mounting type	PCB mounting
Connection method	SMD

Drawings

Dimensional drawing

24,95

32 ±0,3

28,4 ±0,1

24 ±0,1

4 ±0,1

Ø1,5 +0,1

1,5 +0,1

0,2 ±0,05
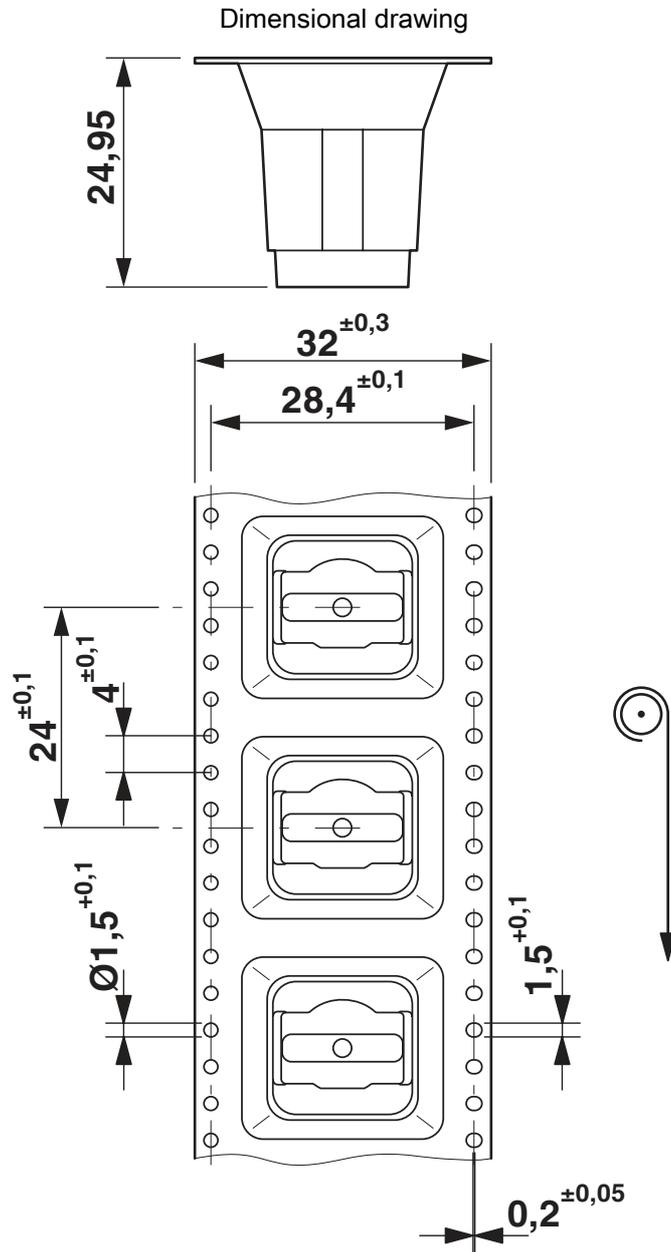
SMD tape-on-reel packing

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Dimensional drawing

14,2

12,7

7,25
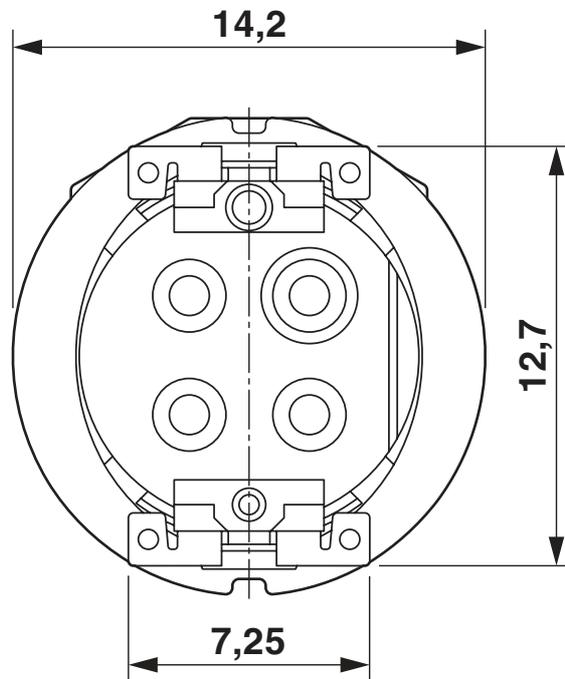
View of solder side

Dimensional drawing

21,4

Ø1,3 $^{-0,05}$

Ø1,4 $^{\pm0,03}$

9 $^{\pm0,05}$

Ø1 $^{\pm0,03}$

1,35

Ø9,45

14,2
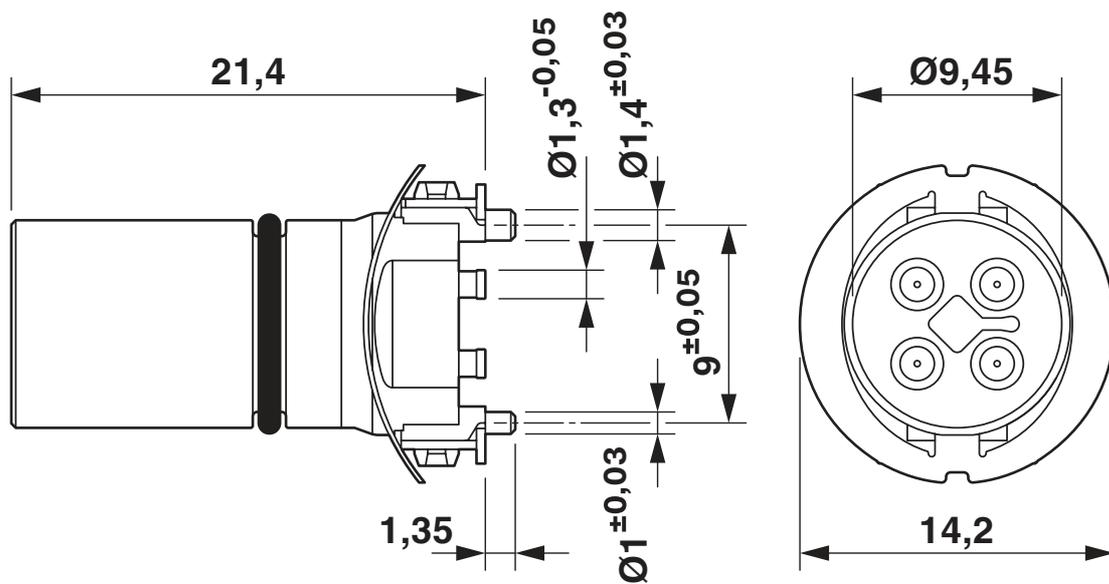
Dimensional drawing

Drilling plan/solder pad geometry

Ø2,5

Ø1,5$^{-0,03}$

□3,61

Ø1,9

13,6

2,25

9$^{±0,02}$

Ø1,1$^{-0,03}$

7,85

Soldering pad geometry

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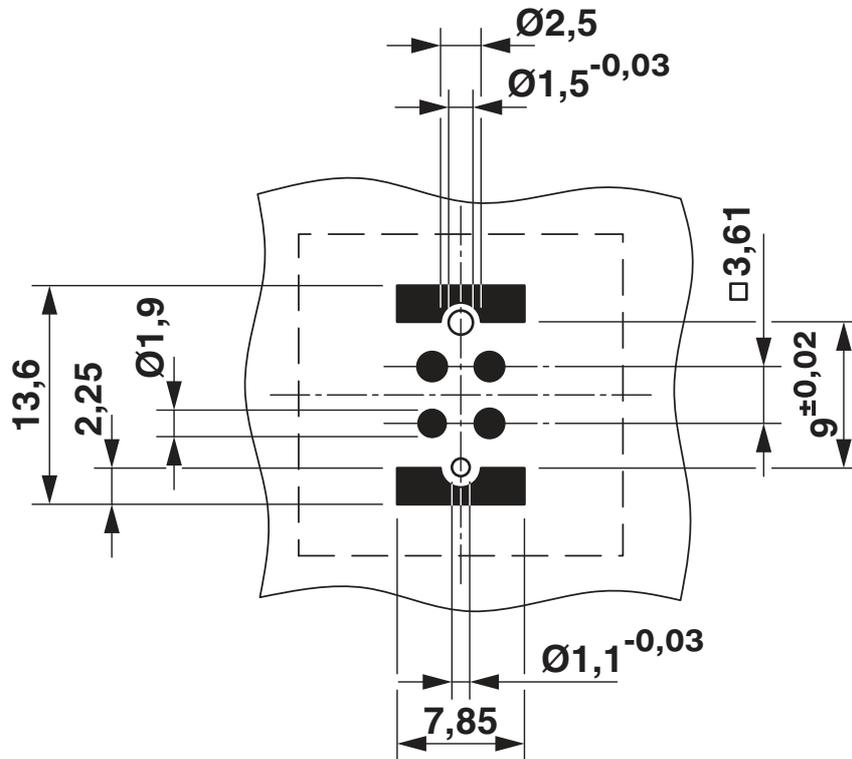
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Schematic diagram
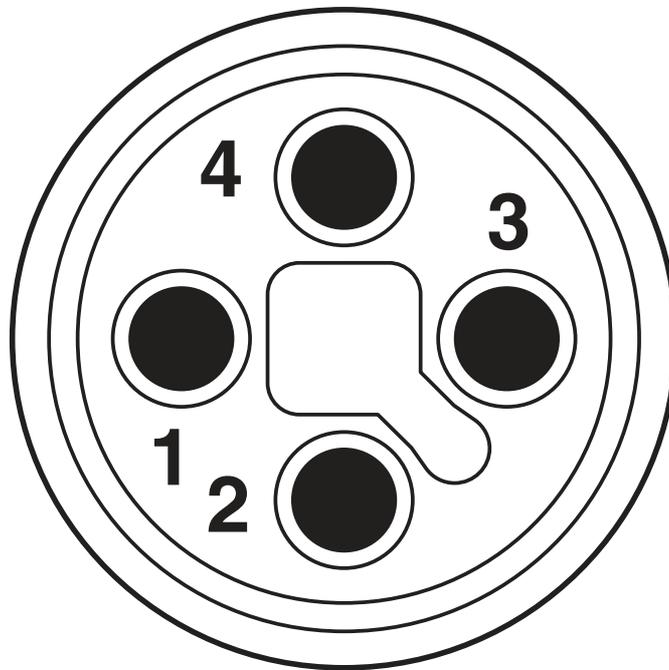
Connector pin assignment of M12 plug, 4-pos., T-coded, view of pin side

Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1412017

cUL Recognized
Approval ID: E468743-20190917

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	63 V	8 A	-	-

UL Recognized
Approval ID: E468743-20190917

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	63 V	10 A	-	-

EAC
Approval ID: B.01687

cULus Recognized

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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

SACC-CIP-M12MST-4P SMD SH-SP - Sample set

1418644

https://www.phoenixcontact.com/pc/products/1418644

Sample set, 4-position, Plug, straight, M12, coding: T , PCB mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239208

SACC-BP-M-M12/M15-6-SMD - Housing screw connection

1414000

https://www.phoenixcontact.com/pc/products/1414000

Housing screw connection, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239053

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

1414002

https://www.phoenixcontact.com/pc/products/1414002

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.: 1239054

SACC-FP-M-M12/M14 SMD - Housing screw connection

1412078

https://www.phoenixcontact.com/pc/products/1412078

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.: 1238970

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SACC-FP-M-M12/PRESS SMD - Housing screw connection

1412080

https://www.phoenixcontact.com/pc/products/1412080

Housing screw connection, Plug, M12, Front mounting

SACC-BP-M-M12-SMD PP - Housing screw connection

1107993

https://www.phoenixcontact.com/pc/products/1107993

Housing screw connection, Plug, M12-Push-Pull, Rear mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1308006

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

1107999

https://www.phoenixcontact.com/pc/products/1107999

Housing screw connection, Front mounting, SMD

PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

info@phoenixcontact.com