

SAC-3P-MS/B-1L-Z SCO - Valve connector



1458541

<https://www.phoenixcontact.com/us/products/1458541>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Valve connector, 3-position, Plug straight M12, coding: A, on Valve connector B (10 mm), with 1 LED, Wiring: Z diode

Commercial data

Item number	1458541
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF10
Product key	AF1GDA
GTIN	4046356638999
Weight per piece (including packing)	27.3 g
Weight per piece (excluding packing)	26.7 g
Customs tariff number	85366990
Country of origin	PL

SAC-3P-MS/B-1L-Z SCO - Valve connector

1458541

<https://www.phoenixcontact.com/us/products/1458541>

Technical data

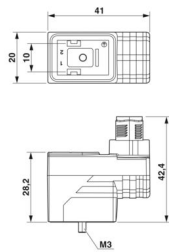
Product properties

Product type	Valve connector adapter
Number of positions	3
No. of cable outlets	1
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	20 mm
Height	42.4 mm
Length	41 mm

Connection data

Connection method	M12 connector
Tightening torque	0.6 Nm (Valve connector)

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	24 V AC 24 V DC
Nominal current I_N	4 A

Valve connector characteristics

Fixing screws	M3 x 29
Pulse power	40 W (at 100 μ s square-wave pulse)
Terminal voltage	70 V (at 2 mA constant current)
Reverse voltage	50 V

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	50 (Valve connector)
-----------------------------	----------------------

SAC-3P-MS/B-1L-Z SCO - Valve connector



1458541

<https://www.phoenixcontact.com/us/products/1458541>

≥ 100 (M12 connector)

Material specifications

Flammability rating according to UL 94	HB
Seal material	TPU
Material housing valve plug	TPU
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Contact material	CuSn
Valve plug contact insert material	PA 6.6
Contact surface material	Sn
Material for screw connection	Zinc die-cast, nickel-plated

Signaling

Status display	LED (yellow)
Status display present	yes

Connector

Connection 1

Type	Plug straight M12
Number of positions	3
Coding type	A

Connection 2

Type	Valve connector B (10 mm)
Number of positions	3
Material	CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carrier) TPU (Housing)
Protective circuit	Z diode

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature (operation) (Valve connector)	-25 °C ... 85 °C (Valve connector)

Standards and regulations

M12

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

SAC-3P-MS/B-1L-Z SCO - Valve connector



1458541

<https://www.phoenixcontact.com/us/products/1458541>

Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

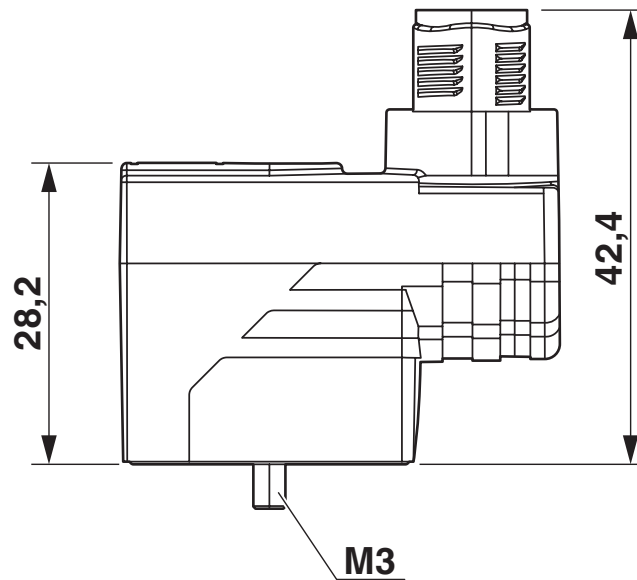
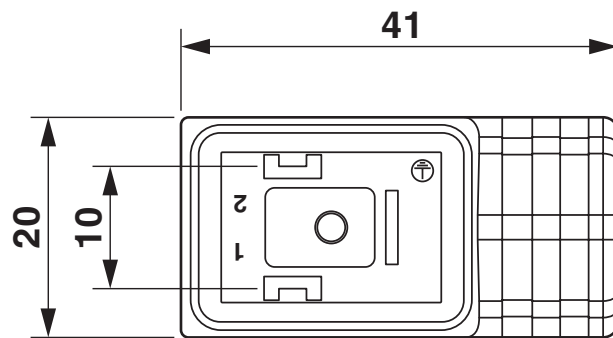
SAC-3P-MS/B-1L-Z SCO - Valve connector

1458541

<https://www.phoenixcontact.com/us/products/1458541>

Drawings

Dimensional drawing

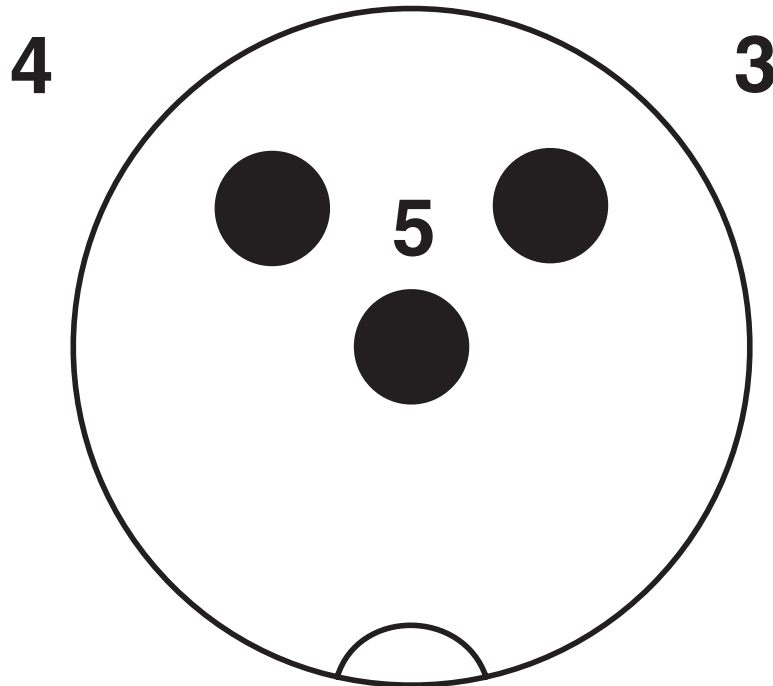


SAC-3P-MS/B-1L-Z SCO - Valve connector

1458541

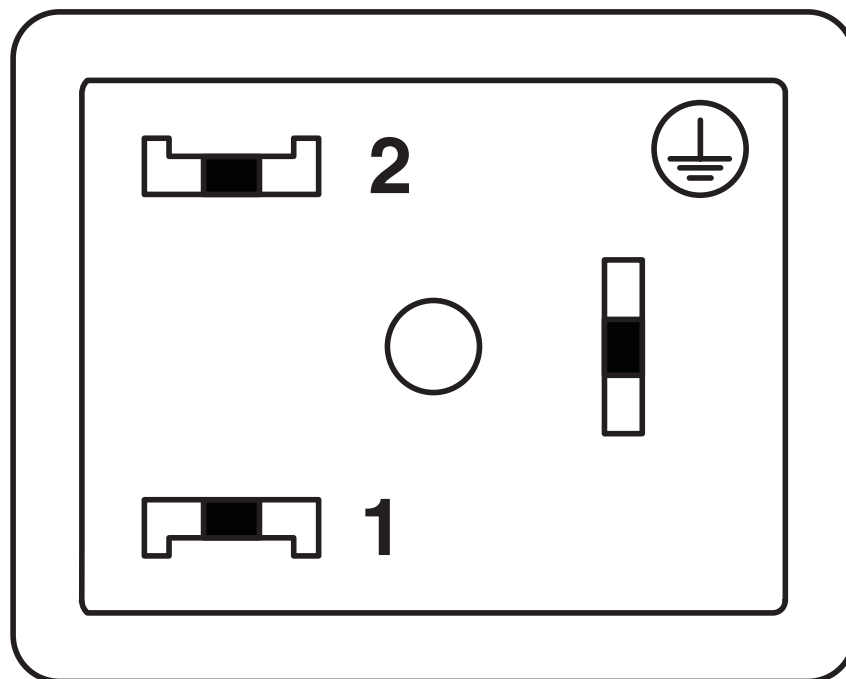
<https://www.phoenixcontact.com/us/products/1458541>

Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view male side

Schematic diagram



Valve connector pin assignment, type B

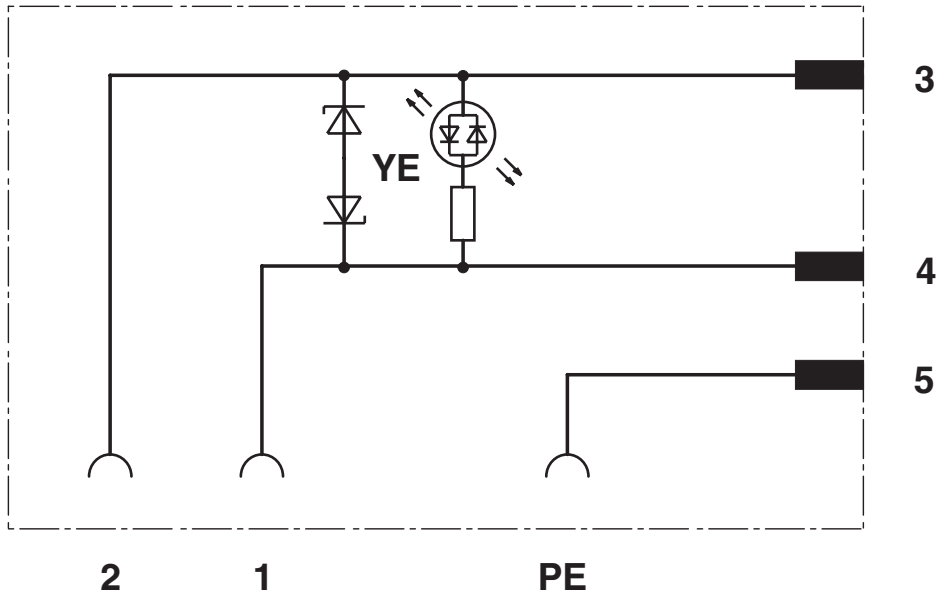
SAC-3P-MS/B-1L-Z SCO - Valve connector

1458541

<https://www.phoenixcontact.com/us/products/1458541>



Circuit diagram



SAC-3P-MS/B-1L-Z SCO - Valve connector



1458541

<https://www.phoenixcontact.com/us/products/1458541>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1458541>

DNV

Approval ID: TAE00002K4



EAC

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



CSAus

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	24 V	4 A	-	-

SAC-3P-MS/B-1L-Z SCO - Valve connector



1458541

<https://www.phoenixcontact.com/us/products/1458541>

Classifications

ECLASS

ECLASS-13.0	27440105
ECLASS-15.0	27440105

ETIM

ETIM 10.0	EC003623
-----------	----------

UNSPSC

UNSPSC 21.0	31251500
-------------	----------

SAC-3P-MS/B-1L-Z SCO - Valve connector



1458541

<https://www.phoenixcontact.com/us/products/1458541>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

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.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
SCIP	b5712d01-9184-417f-b017-c8acd5b60182

EF3.1 Climate Change

CO2e kg	1.138 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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