

# SAC-4P-MS/A-1L-Z D SCO - Valve connectors



1458583

<https://www.phoenixcontact.com/us/products/1458583>

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Valve connectors, 4-position, Plug straight M12, coding: A, with 1 LED, Wiring: Z diode, on Valve connector A (DESINA), with 1 LED, Wiring: Z diode



## Commercial data

Item number	1458583
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF10
Product key	BF1GDA
Catalog page	Page 257 (C-2-2019)
GTIN	4046356639033
Weight per piece (including packing)	32.014 g
Weight per piece (excluding packing)	32.6 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

### Product properties

Product type	Valve connector adapter
Number of positions	4
No. of cable outlets	1
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	28 mm
Height	42.4 mm
Length	41 mm

### Connection data

Connection method	M12 connector
Tightening torque	0.6 Nm (valve plug)

### 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
Protective circuit	Z diode

### Valve connector characteristics

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

### Mechanical properties

Mechanical data	
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Insertion/withdrawal cycles	50 (valve plug) ≥ 100 (M12 connector)
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## 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	Yellow LED
Status display present	Yes

## Connector

Connection 1	
Type	Plug straight M12
Number of positions	4
Coding type	A

Connection 2	
Type	Valve connector A (DESINA)
Number of positions	4
Material	CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carriers) TPU (Housing)

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP65
Ambient temperature (operation)	-25 °C ... 85 °C (valve plug)

## Standards and regulations

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

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## Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

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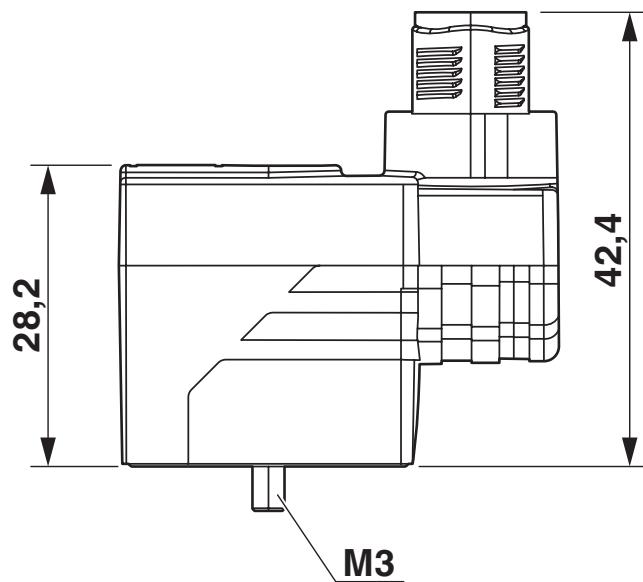
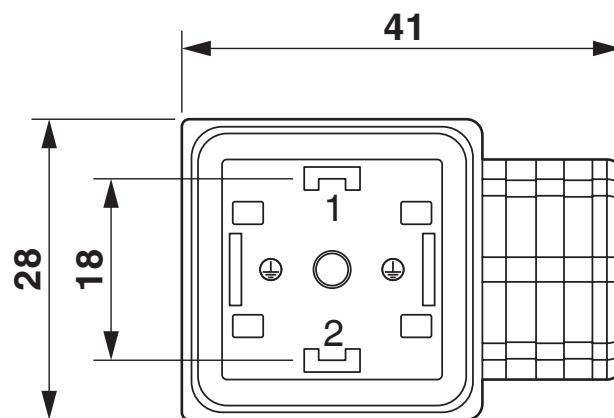
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## Drawings

Dimensional drawing



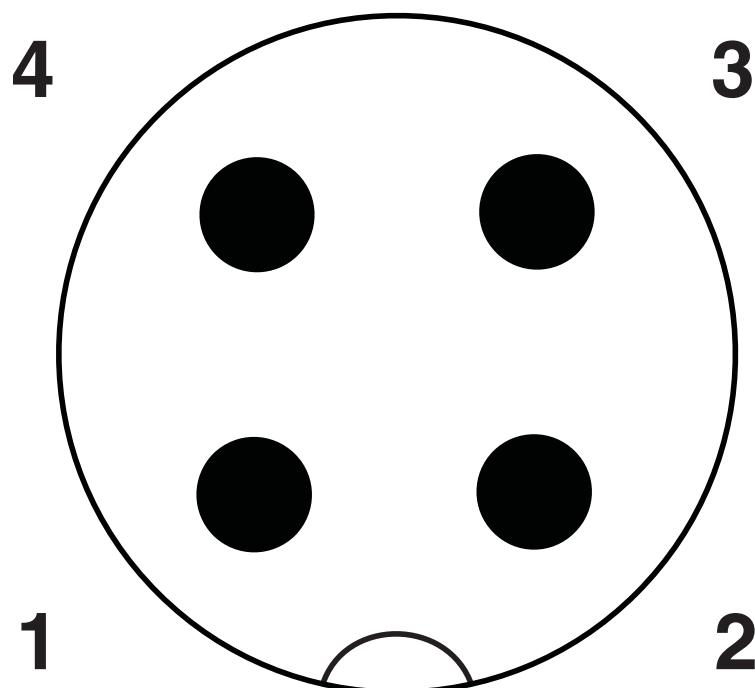
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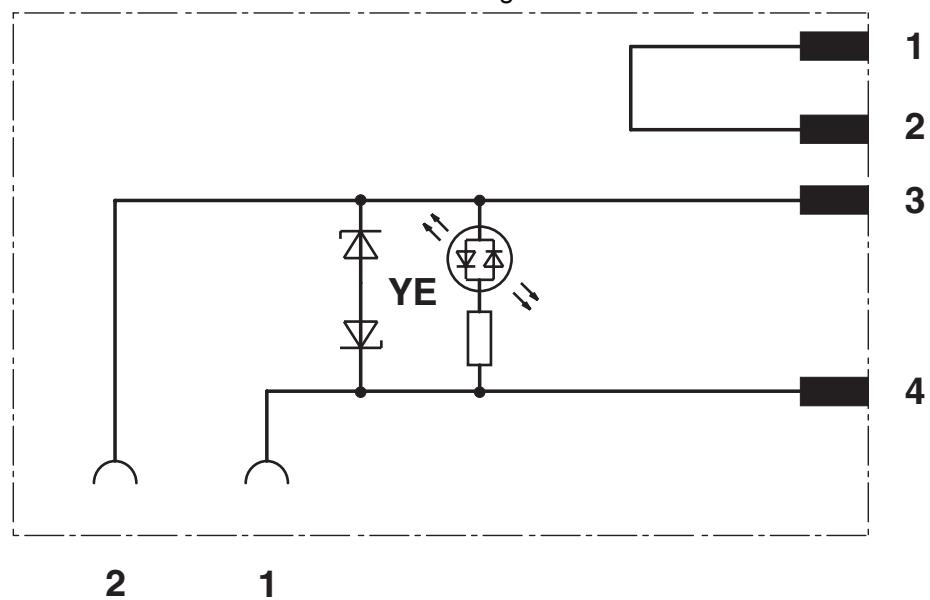


Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

Circuit diagram



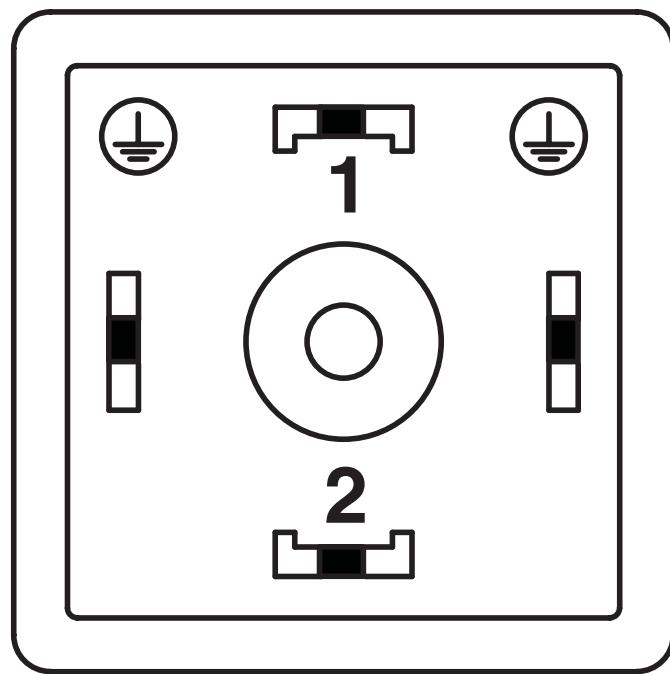
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Schematic diagram



Valve connector pin assignment, type A

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1458583>

**DNV**

Approval ID: TAE00002K4



**EAC**

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

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## Classifications

### ECLASS

ECLASS-11.0	27440105
ECLASS-12.0	27440105
ECLASS-13.0	27440105

### ETIM

ETIM 9.0	EC003623
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### UNSPSC

UNSPSC 21.0	31251500
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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

### TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm



### SF-BIT-PH 1-70 - Screw insert

1212582

<https://www.phoenixcontact.com/us/products/1212582>

Screw bit, PH crosshead, E6.3-1/4" drive, size: PH 1 x 70 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173



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