

# SAC-5P-MS/AD-2L SCO - Valve connector



1458596

<https://www.phoenixcontact.com/us/products/1458596>

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Valve connector, 5-position, Plug straight M12 SPEEDCON, coding: A, with 2 LEDs, on Valve connector AD (pressure switch), with 2 LEDs



## Commercial data

Item number	1458596
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF10
Product key	AF1GDA
GTIN	4046356639040
Weight per piece (including packing)	32.1 g
Weight per piece (excluding packing)	32.1 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	5
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 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
Protective circuit	unwired

### Valve connector characteristics

Fixing screws	M3 x 29
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### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	50 (Valve connector)
	$\geq 100$ (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	2 LEDs
Status display present	yes

## Connector

### Connection 1

Type	Plug straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A

### Connection 2

Type	Valve connector AD (pressure switch)
Number of positions	5
Material	CuSn (Contact) Sn (Contact surface) PA 6.6 (Contact carrier) TPU (Housing)

## 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

### Valve connector

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Standard designation	Valve connector
Standards/specifications	EN 175301-803

# SAC-5P-MS/AD-2L SCO - Valve connector

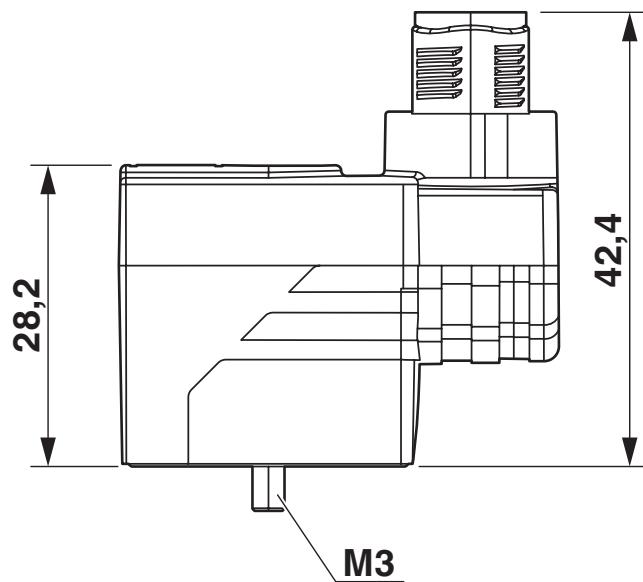
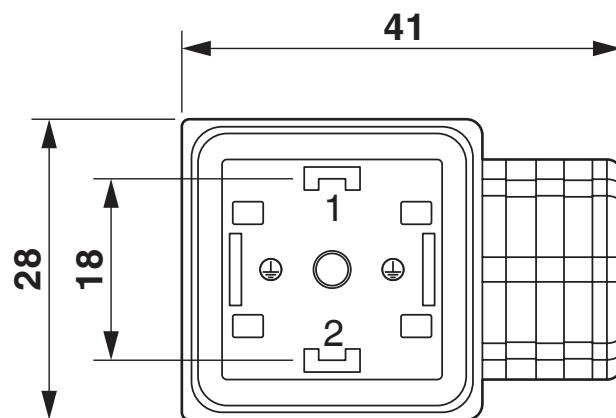


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## Drawings

Dimensional drawing



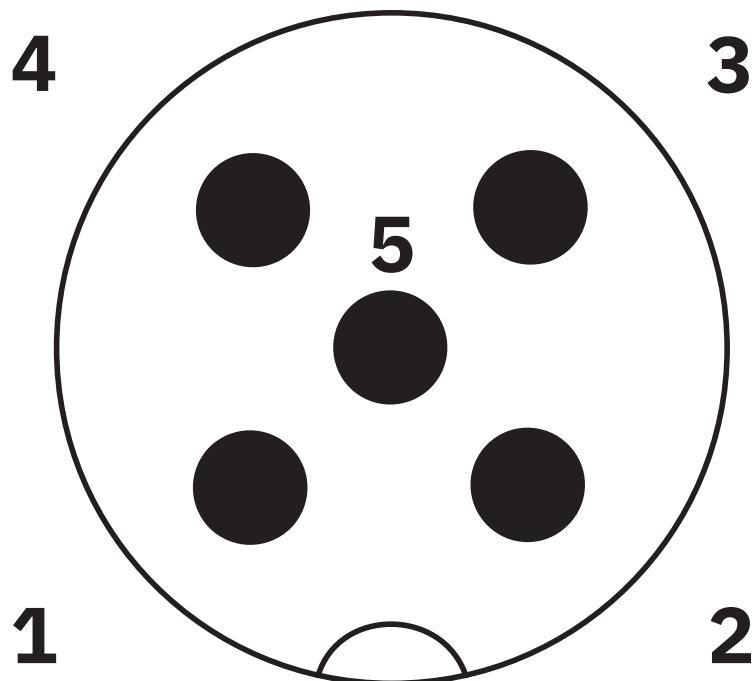
# SAC-5P-MS/AD-2L SCO - Valve connector

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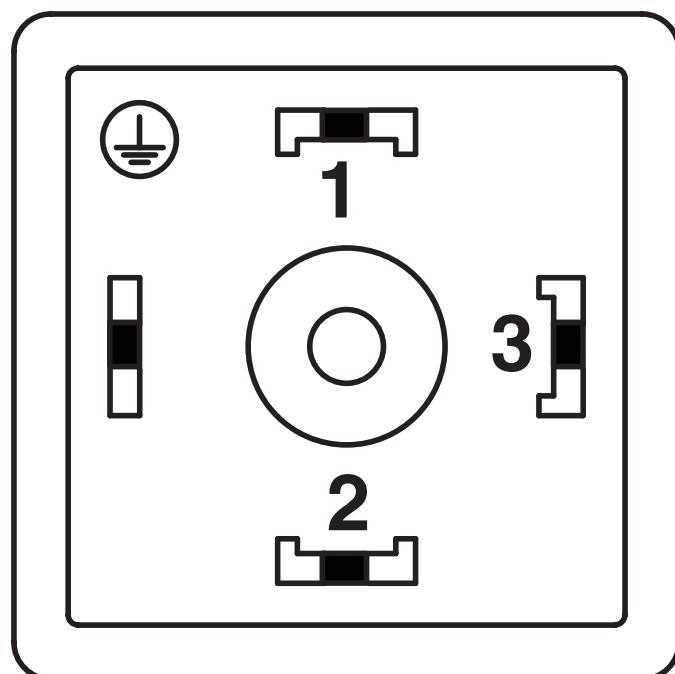


Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



Valve plug connector pin assignment, type AD

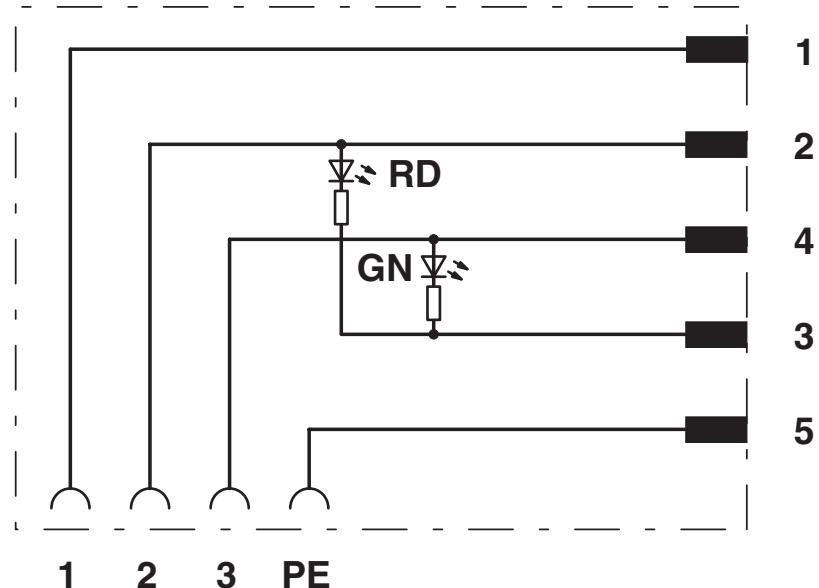
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Circuit diagram



Contact assignment of M12 plug and valve connector

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1458596>

**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		

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## Classifications

### ECLASS

ECLASS-13.0	27440105
ECLASS-15.0	27440105

### ETIM

ETIM 9.0	EC003623
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### UNSPSC

UNSPSC 21.0	31251500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.0 Climate Change

CO2e kg	1.196 kg CO2e
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