

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) | 30 g |
| Weight per piece (excluding packing) | 32.1 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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Technical data

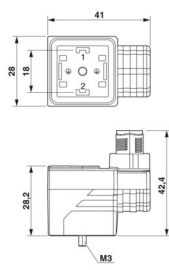
Product properties

| | |
|----------------------|-------------------------|
| 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 |
|---------------|---------|

Mechanical properties

Mechanical data

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

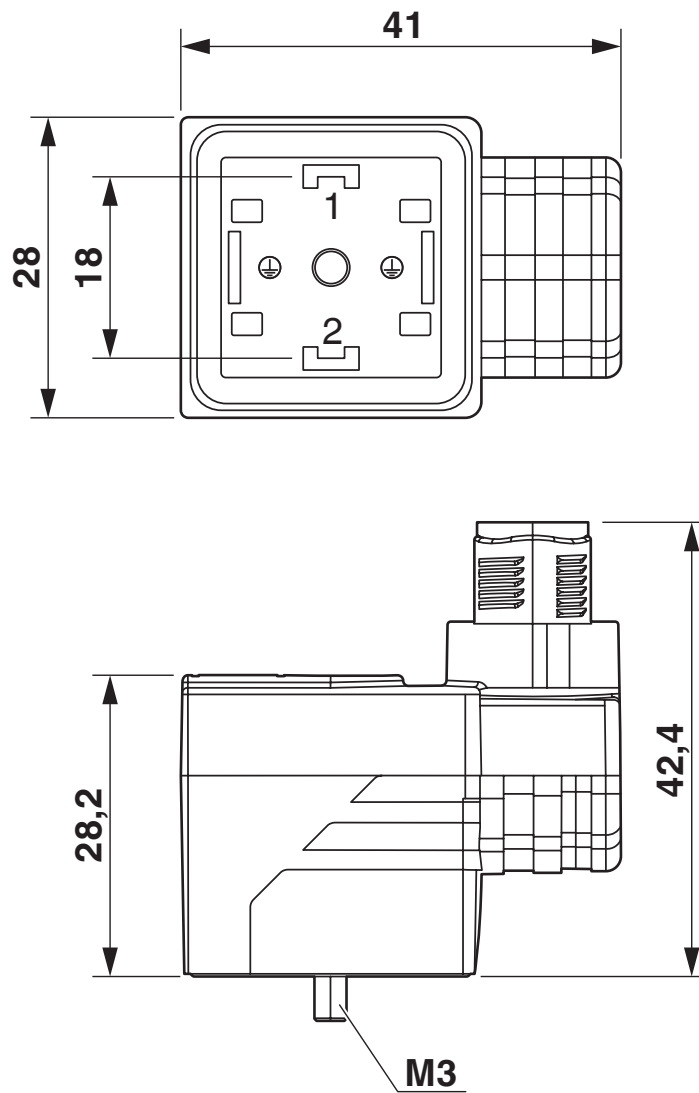
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Drawings

Dimensional drawing



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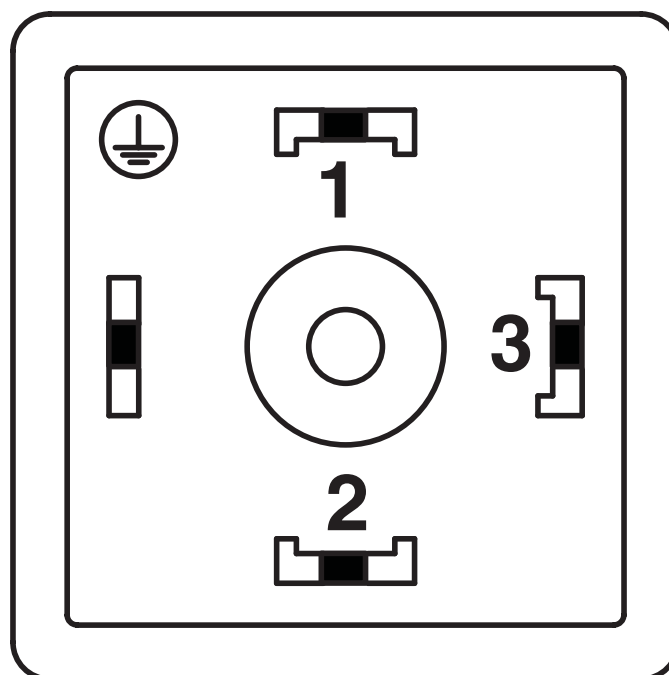
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Schematic diagram



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

Schematic diagram

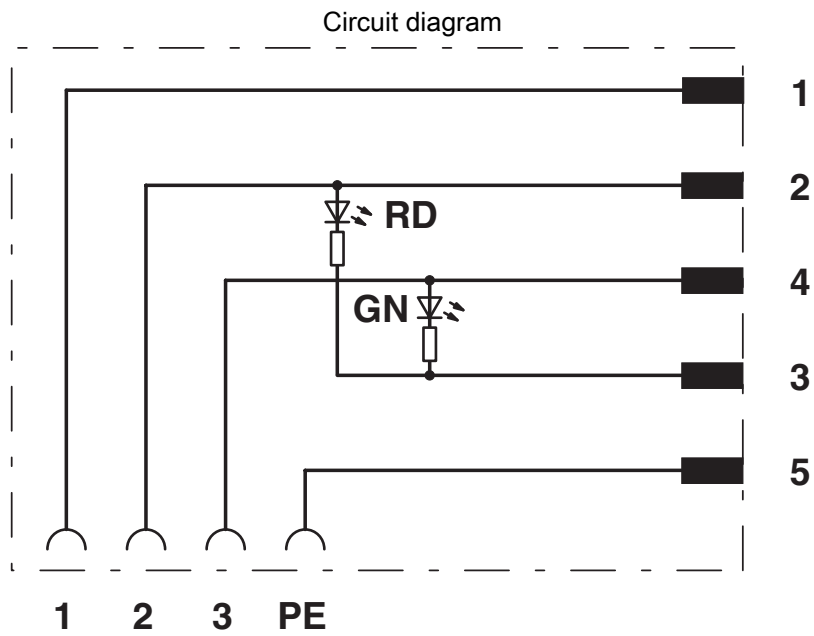


Valve plug connector pin assignment, type AD

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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 10.0 | EC003623 |
|-----------|----------|

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.196 kg CO2e |
|---------|---------------|

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