

# SAC-MS/0,1-116/2XA-1L-Z SCO - Double valve connector adapter



1458101

<https://www.phoenixcontact.com/us/products/1458101>

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Double valve connector adapter, Universal, 4-position, PUR/PVC, black RAL 9005, Plug straight M12 SPEEDCON, coding: A, on Valve connector A, with 1 LED, Wiring: Z diode and Valve connector A, with 1 LED, Wiring: Z diode, valve connector spacing: 0.1 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Efficient: control valves with two connections via a single connecting cable
- Convenient: increased machine availability thanks to quick and easy diagnostics

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1458101       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF07          |
| Product key                          | AF1DPA        |
| GTIN                                 | 4046356638524 |
| Weight per piece (including packing) | 65.5 g        |
| Weight per piece (excluding packing) | 65.5 g        |
| Customs tariff number                | 85444290      |
| 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  |

### Connection data

|                   |                          |
|-------------------|--------------------------|
| 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 $\mu$ 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) |
|-----------------------------|----------------------|

### 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 6.6                       |
| Contact material                       | CuSn                         |
| Valve plug contact insert material     | PA 6.6                       |
| Contact surface material               | Sn                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |

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## Signaling

|                        |       |
|------------------------|-------|
| Status display         | 1 LED |
| Status display present | yes   |

## Connector

### Connection 1

|                     |                            |
|---------------------|----------------------------|
| Type                | Plug straight M12 SPEEDCON |
| Number of positions | 4                          |
| Locking type        | SPEEDCON                   |
| Coding type         | A                          |

### Connection 2

|                    |                          |
|--------------------|--------------------------|
| Type               | Valve connector A        |
| Material           | CuSn (Contact)           |
|                    | Sn (Contact surface)     |
|                    | PA 6.6 (Contact carrier) |
|                    | TPU (Housing)            |
| Protective circuit | Z diode                  |

### Connection 3

|                    |                          |
|--------------------|--------------------------|
| Type               | Valve connector A        |
| 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 |

### Valve connector

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | Valve connector |
| Standards/specifications | EN 175301-803   |

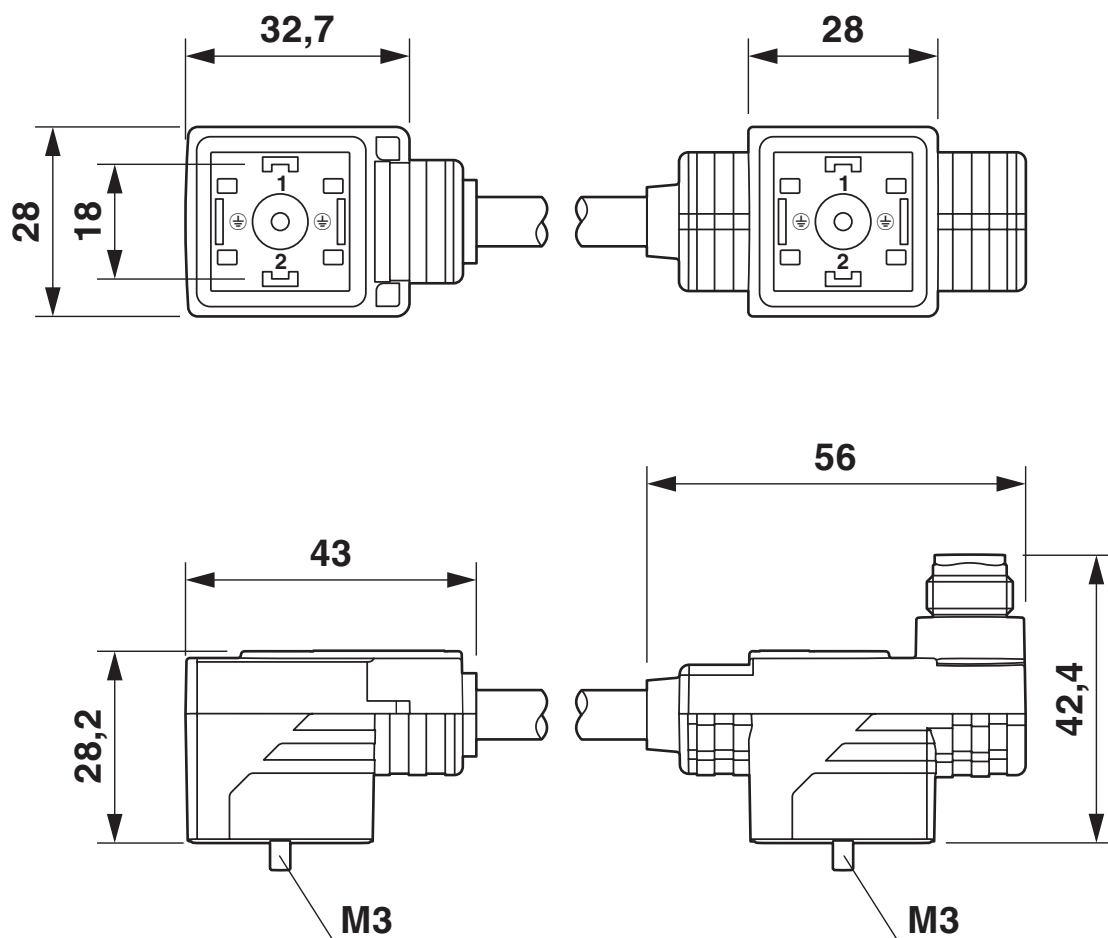
# SAC-MS/0,1-116/2XA-1L-Z SCO - Double valve connector adapter

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## Drawings

Dimensional drawing



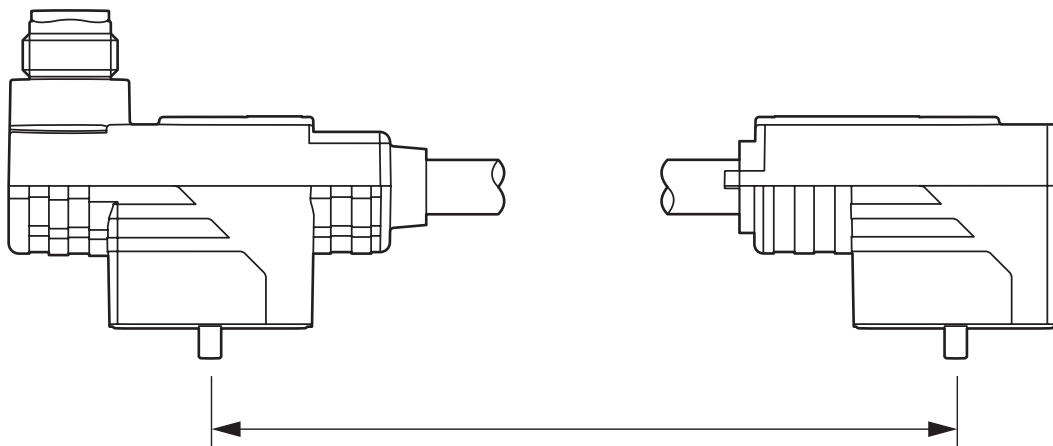
Double valve connector, 2x type A

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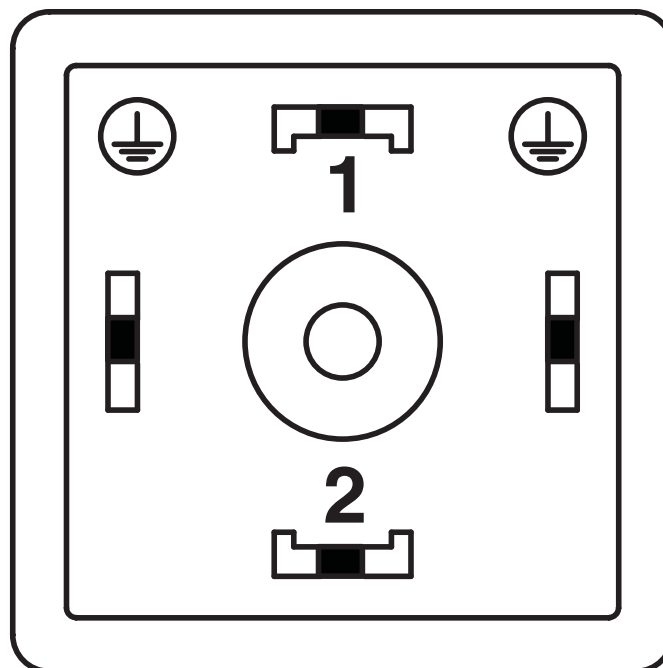
<https://www.phoenixcontact.com/us/products/1458101>

Dimensional drawing



Valve connector spacing

Schematic diagram



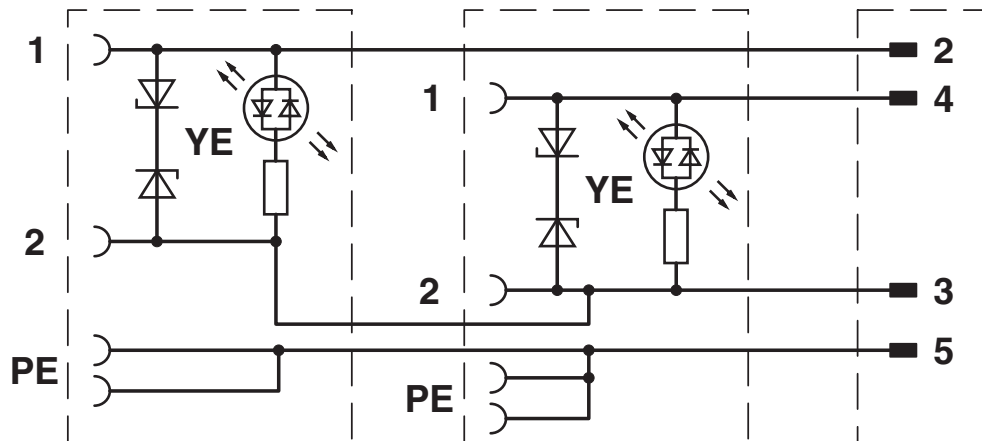
Valve connector pin assignment, type A

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Circuit diagram



Contact assignment of the double-valve connector

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1458101>

|                                                                                                                      |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSAus</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                |                       |                       |                   |                             |
|                                                                                                                      | 24 V                  | 4 A                   | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060312 |
| ECLASS-15.0 | 27060312 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

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

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## 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.879 kg CO2e |
|---------|---------------|

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