

# Valve connectors - SAC-3P-MR/BI-1L-Z SCO - 1458570

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Valve connectors, 3-position, Plug angled M12, coding: A, on Valve connector BI (11 mm), with 1 LED, connected with Z diode



## Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 1 pc          |
| GTIN         |               |
| GTIN         | 4046356639026 |

## Technical data

### Dimensions

|                               |         |
|-------------------------------|---------|
| Central screw valve connector | M3 x 29 |
|-------------------------------|---------|

### Ambient conditions

|                                 |                               |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (valve plug) |
| Degree of protection            | IP65                          |
|                                 | IP67                          |

### General

|                              |                                    |
|------------------------------|------------------------------------|
| Rated current at 40°C        | 4 A                                |
| Rated voltage                | 24 V AC                            |
|                              | 24 V DC                            |
| Number of positions          | 3                                  |
| Insulation resistance        | ≥ 100 MΩ                           |
| Coding                       | A - standard                       |
| Standards/regulations        | M12 connector IEC 61076-2-101      |
| Status display               | Yellow LED                         |
| Protective circuit/component | Z diode                            |
| Pulse power $W_{max}$        | 40 W (at 100 μs square-wave pulse) |
| Terminal voltage             | 70 V (at 2 mA constant current)    |

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### Technical data

#### General

|                             |                          |
|-----------------------------|--------------------------|
| Reverse voltage             | 50 V                     |
| Overvoltage category        | II                       |
| Degree of pollution         | 3                        |
| Connection method           | M12 connector            |
| Insertion/withdrawal cycles | 50 (Valve connector)     |
|                             | ≥ 100 (M12 connector)    |
| Torque                      | 0.6 Nm (Valve connector) |

#### Material

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | HB                           |
| Contact material                       | CuSn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA66                         |
| Valve plug contact material            | CuSn                         |
| Valve plug contact surface material    | Sn                           |
| Valve plug contact insert material     | PA 6.6                       |
| Material housing valve plug            | TPU                          |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | TPU (Seal molded)            |

#### Standards and Regulations

|  |                               |
|--|-------------------------------|
| Standards/specifications               | M12 connector IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB                            |

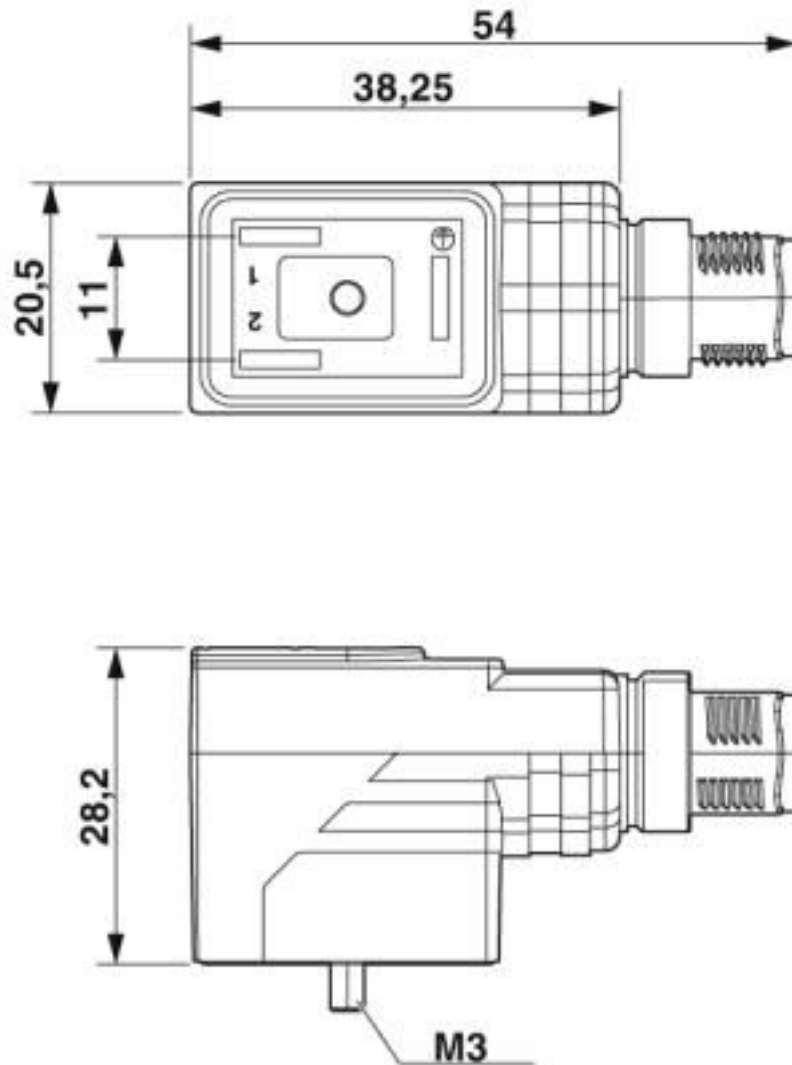
#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

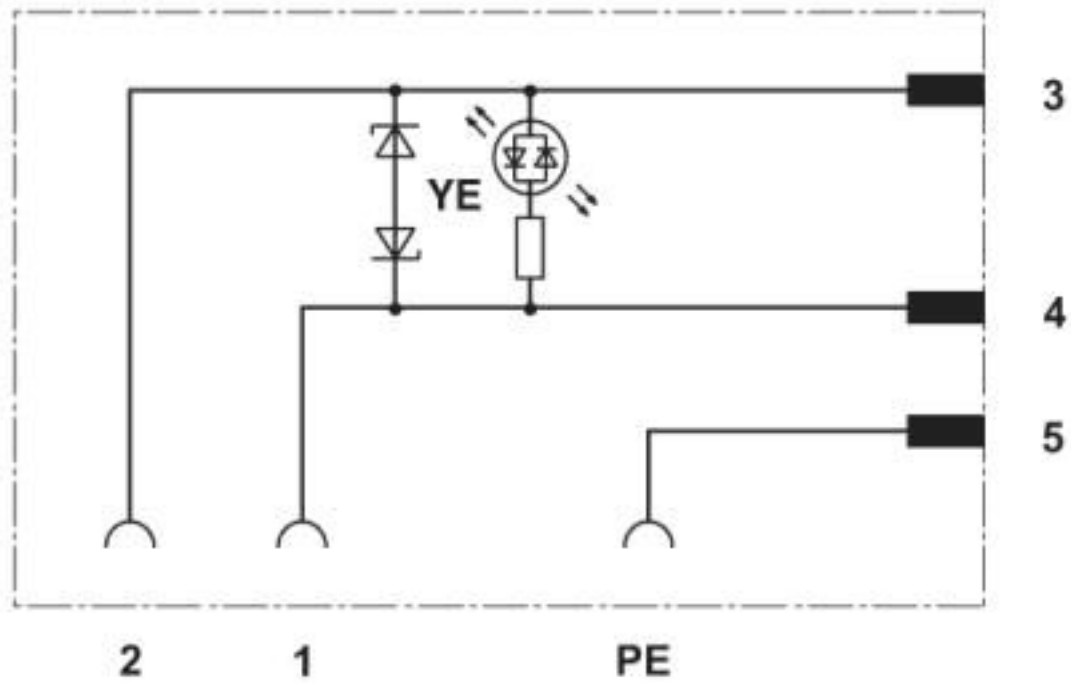
## Valve connectors - SAC-3P-MR/BI-1L-Z SCO - 1458570

Dimensional drawing



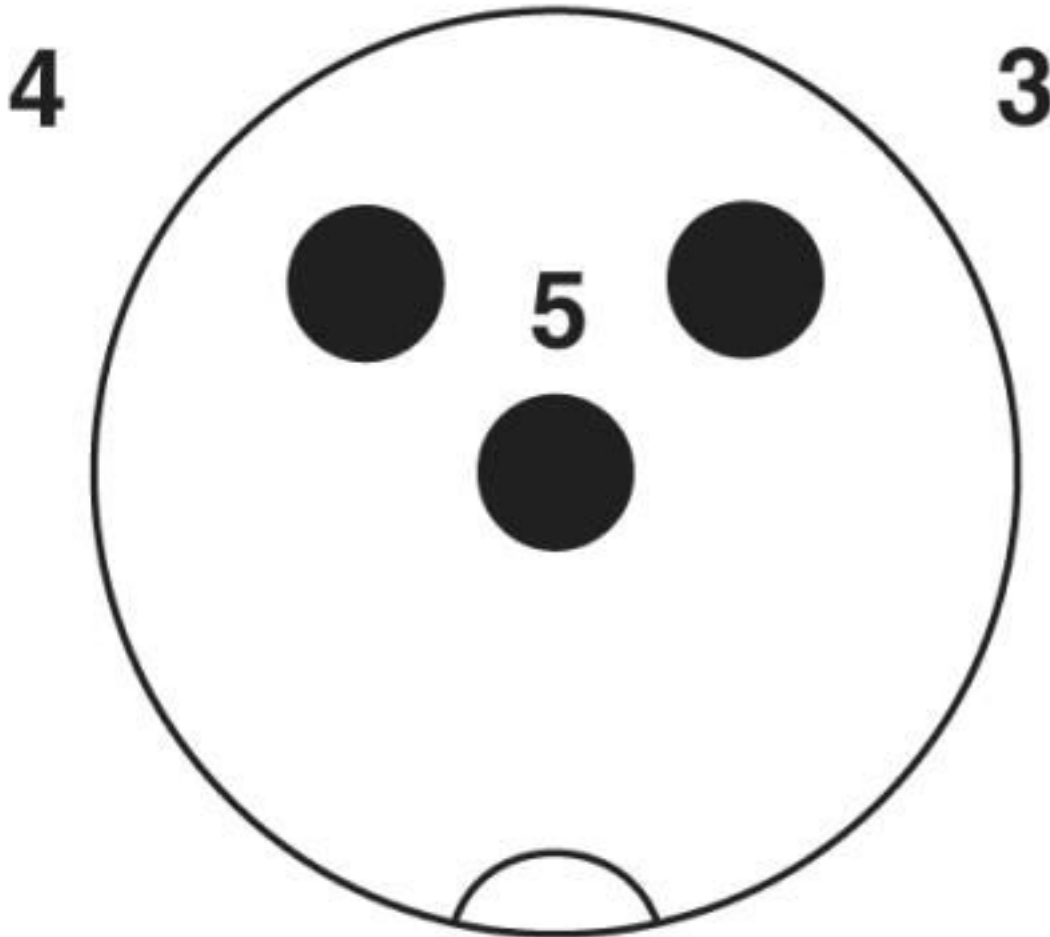
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Circuit diagram



## Valve connectors - SAC-3P-MR/BI-1L-Z SCO - 1458570

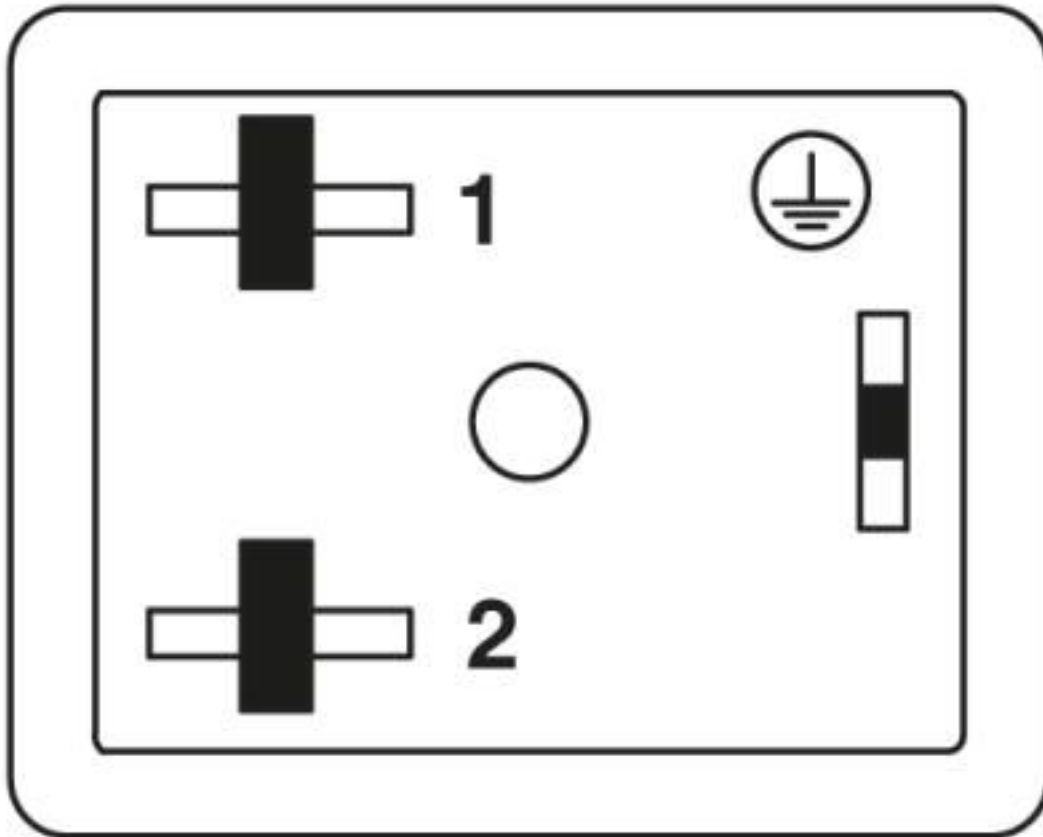
Schematic diagram



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

# Valve connectors - SAC-3P-MR/BI-1L-Z SCO - 1458570

Schematic diagram



Valve connector pin assignment, type BI

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440105 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27143400 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440104 |
| eCl@ss 8.0    | 27440104 |
| eCl@ss 9.0    | 27440105 |

ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |
| ETIM 6.0 | EC002925 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC002925 |
|----------|----------|

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 19.0   | 31251501 |
| UNSPSC 20.0   | 31251501 |
| UNSPSC 21.0   | 31251501 |

## Approvals

### Approvals


#### Approvals

DNV GL / CSAus / EAC / EAC

#### Ex Approvals

### Approval details

|        |   |   |            |
|--------|---|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00002K4 |
|--------|---|---|------------|

|                    |   |   |       |
|--------------------|---|---|-------|
| CSAus              |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
| Nominal voltage UN | 24 V  |   |       |
| Nominal current IN | 4 A   |   |       |

|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|---|--------------------------|

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## Approvals

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|--|--------------------------|

## Accessories

### Accessories

#### Screwdriver tools

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

## Sensor/actuator cable

Connecting cable - SAC-3P-FS SCO V/.../... - 1406702



Connecting cable, 3-position, Variable cable type, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m), For valve plug adapters

Sensor/actuator cable - SAC-3P-M12MS/3,0-PUR/M12FS 345 - 1402560



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 3 m, For valve connector

Sensor/actuator cable - SAC-3P-M12MS/5,0-PUR/M12FS 345 - 1402561



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 5 m, For valve connector



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### Accessories

Sensor/actuator cable - SAC-3P-M12MS/10,0-PUR/M12FS 345 - 1402562



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m, For valve connector

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### Torque tool

Torque screwdriver - TSD-M 1,2NM - 1212224



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

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