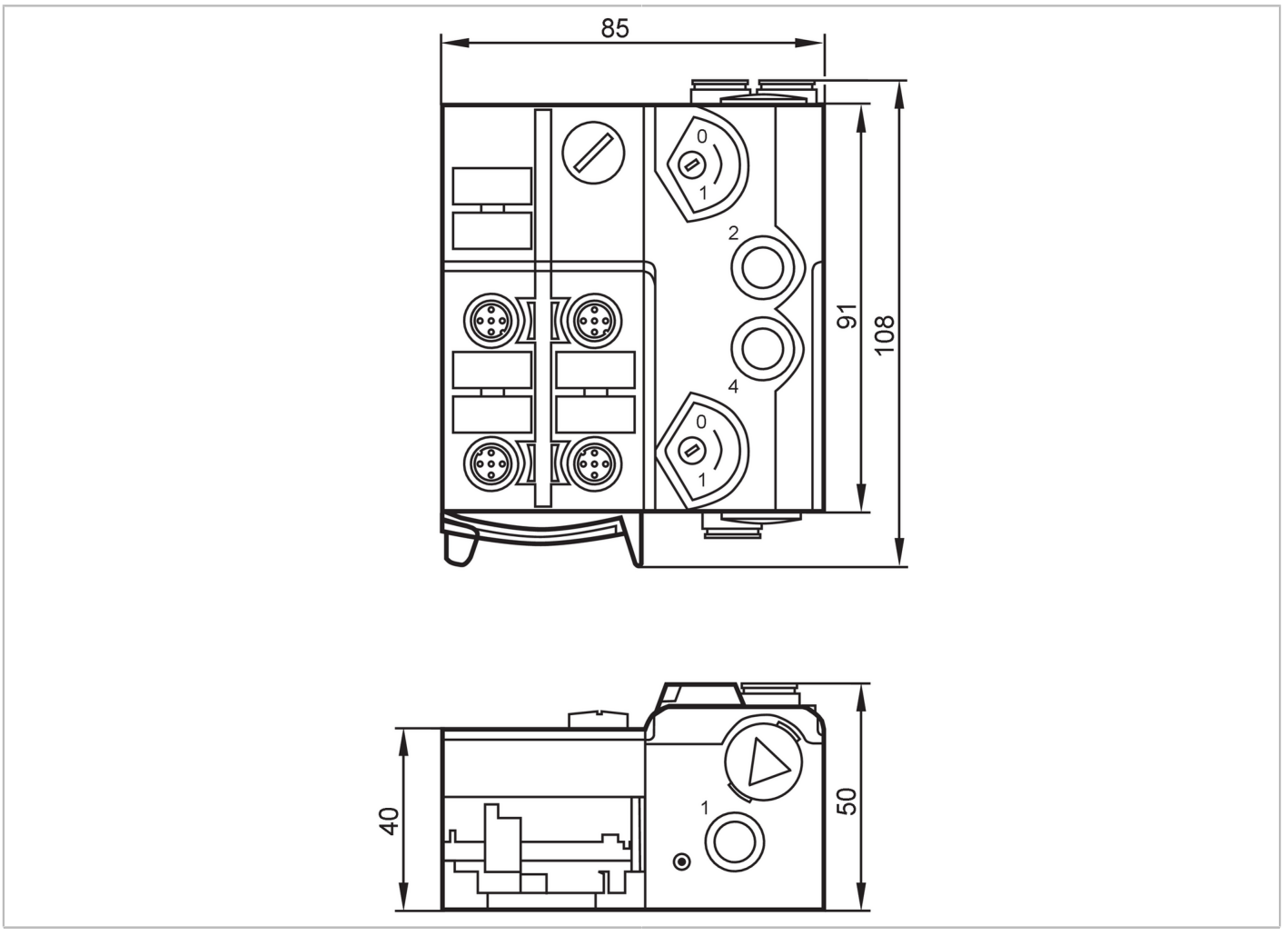
# AC5271

## AS-Interface Airbox with quick mounting technology

AirBox 5/3 closed 4DI-Y AUX




| | | |
|---|---|---|
| **Application** | | |
| Design | | housing for DIN rail mounting |
| Application | | field installation |
| Medium temperature | [°C] | -10...50 |
| **Electrical data** | | |
| Operating voltage | [V] | 26.5...31.6 DC |
| Max. current consumption from AS-i | [mA] | 280 |
| Additional voltage supply | [V] | 18...30 DC;  (to PELV) |
| Additional voltage supply | | required |
| Max. current consumption from additional supply | [mA] | 10 |
| Integrated watchdog | | yes |
| **Inputs / outputs** | | |
| Number of inputs and outputs | | Number of digital inputs: 4; Number of pneumatic outputs: 2 |
| **Inputs** | | |
| Number of digital inputs | | 4 |

# AC5271

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AirBox 5/3 closed 4DI-Y AUX

| | | | | | | |
|---|---|---|---|---|---|---|
| Input circuit of digital inputs | | PNP | | | | |
| Sensor supply of the inputs | | AS-i | | | | |
| Voltage supply | [V] | 20...30; (via flat cable) | | | | |
| Max. total current rating of inputs | [mA] | 200 | | | | |
| Input current High | [mA] | 6...10 | | | | |
| Input current Low | [mA] | 0...2 | | | | |
| Switching level high | [V] | > 11 | | | | |
| Digital inputs protected against short circuits | | yes | | | | |
| **Outputs** | | | | | | |
| Number of pneumatic outputs | | 2; (supply: external 24 V power supply) | | | | |
| Actuator supply outputs | | AUX | | | | |
| **Operating conditions** | | | | | | |
| Ambient temperature | [°C] | -10...55 | | | | |
| Protection | | IP 65; IP 67 | | | | |
| **Tests / approvals** | | | | | | |
| EMC | | EN 50295 | | | | |
| | | IEC 61000-6-2 | | | | |
| MTTF | [years] | 216 | | | | |
| **AS-i classification** | | | | | | |
| AS-i version | | 2.11; 3.0 | | | | |
| AS-i addressing | | addressing socket | | | | |
| Extended addressing mode | | yes | | | | |
| AS-i master profile | | M2; M3; M4 | | | | |
| AS-i profile | | S-7.A.E | | | | |
| AS-i I/O configuration | [hex] | 7 | | | | |
| AS-i ID code | [hex] | A.E | | | | |
| Assignment of the data bits | | data bit | D0 | D1 | D2 | D3 |
| | | input | 1 | 2 | 3 | 4 |
| | | socket | I-1/2 | I-1/2 I-2 | I-3/4 | I-3/4 I-4 |
| | | pin | 4 | 2 4 | 4 | 2 4 |
| | | pneumatic output | 2 | 4 | - | - |
| **Mechanical data** | | | | | | |
| Weight | [g] | 384 | | | | |
| Housing | | rectangular | | | | |
| Type of mounting | | quick mounting; AS-i flat cables directly connectable; mounting on DIN rail; (TH35 (EN 60715)) | | | | |
| Dimensions | [mm] | 108 x 85 x 50 | | | | |
| Materials | | PA; POM; piercing contacts: CuSn6 nickel-plated and tin-plated | | | | |
| Pneumatic system | | 1 x 5/3-way slide valve (free from overlapping); middle position blocked | | | | |
| Operating pressure range | | 3...8 bar | 0.3...0.8 MPa | 43.5...116 psi | | |
| Air flow at 6/5 bar | [l/min] | 400 | | | | |
| Permissible compressed air | | non-lubricated compressed air class 6-3-1; lubricated compressed air class 6-3-4 | | | | |
| Manual override | | pressing/releasing or pressing/turning/locking | | | | |

# AC5271

## AS-Interface Airbox with quick mounting technology

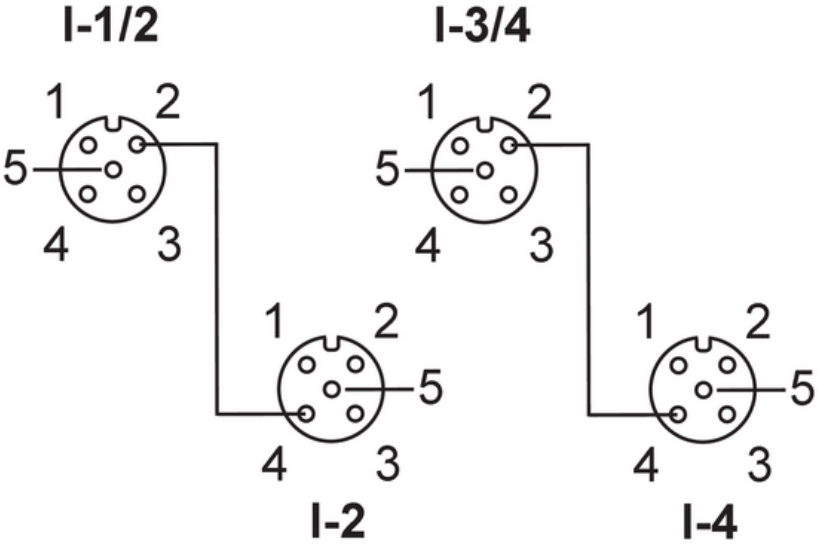
AirBox 5/3 closed 4DI-Y AUX

| | | |
|---|---|---|
| Tube fittings | 8 mm | |
| Exhaust | exhaust can be discharged through tube connection | |
| **Displays / operating elements** | | |
| Display | operation | LED, green |
| | errors | LED, red |
| | function | LED, yellow |
| **Electrical connection** | | |
| Module connection | Flat cables | |
| **Accessories** | | |
| Items supplied | lower part | |
| Accessories (optional) | Mounting plate:, E74999 | |
| | Module lower part:, E75000 | |
| | Protective cap: M12, E73004 | |
| | sealing plugs:, E75231 | |
| | silencer:, E75232 | |
| | Push-in L-fitting:, E75228 | |
| | Push-in T-fitting:, E75227 | |
| **Remarks** | | |
| Remarks | If not pneumatically operated, E75231 sealing plug must be inserted. | |
| | Avoid ingress of dirt and dust. | |
| | Do not connect any of the following points to an external potential: | |
| | L-, L+, I-1, I-2, I-3, I-4 | |
| | The connections are electrically connected with the AS-i cable. | |
| | Please see the notes on compressed air and EMC/ESD under "Downloads" | |
| Pack quantity | 1 pcs. | |

## Electrical connection

quick mounting technology for AS-i flat cable: ; three orientations possible

Connection



# AC5271

## AS-Interface Airbox with quick mounting technology

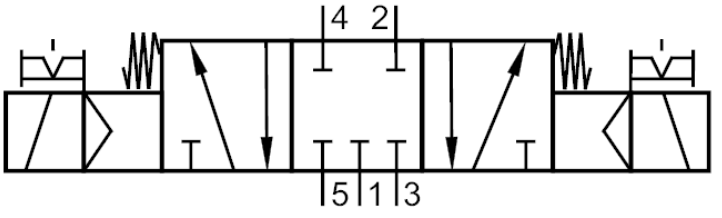
**AirBox 5/3 closed 4DI-Y AUX**

Connector: M12

| | Inputs |
|---|---|
| | socket I-1/2 |
| 1 | Sensor supply L+ |
| 2 | data input 2 |
| 3 | Sensor supply L- |
| 4 | data input 1 |
| 5 | not used |
| | socket I-2 |
| 1 | Sensor supply L+ |
| 2 | not used |
| 3 | Sensor supply L- |
| 4 | data input 2 |
| 5 | not used |
| | socket I-3/4 |
| 1 | Sensor supply L+ |
| 2 | data input 4 |
| 3 | Sensor supply L- |
| 4 | data input 3 |
| 5 | not used |
| | socket I-4 |
| 1 | Sensor supply L+ |
| 2 | not used |
| 3 | Sensor supply L- |
| 4 | data input 4 |
| 5 | not used |

## Diagrams and graphs

Pneumatic symbol




1 x 5/3-way slide valve (free from overlapping); middle position blocked