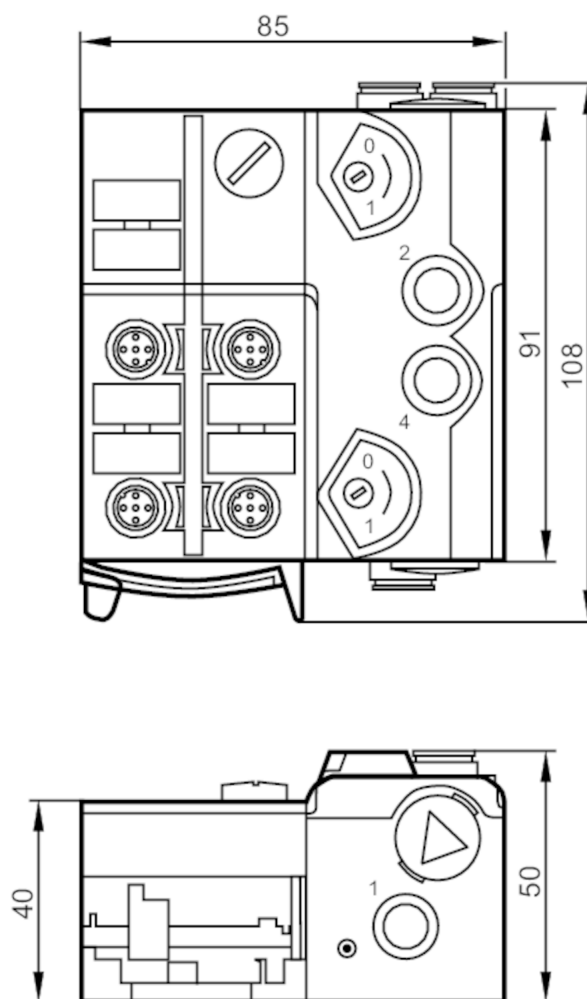


# AC5285



## AS-Interface Airbox with quick mounting technology

AirBox 2x3/2 2x2DI IP67



### Application

|                    |      |          |
|--------------------|------|----------|
| Medium temperature | [°C] | -10...50 |
|--------------------|------|----------|

### Electrical data

|                                    |      |                |
|------------------------------------|------|----------------|
| Operating voltage                  | [V]  | 26.5...31.6 DC |
| Max. current consumption from AS-i | [mA] | 280            |
| Integrated watchdog                |      | yes            |

### Inputs / outputs

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Number of inputs and outputs | Number of digital inputs: 4; Number of pneumatic outputs: 2 |
|------------------------------|-------------------------------------------------------------|



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| Inputs                                          |  |                           |       |             |       |             |
|-------------------------------------------------|--|---------------------------|-------|-------------|-------|-------------|
| Number of digital inputs                        |  | 4                         |       |             |       |             |
| Input circuit of digital inputs                 |  | PNP                       |       |             |       |             |
| 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                     |       |             |       |             |
| Min. switching level high signal [V]            |  | 11                        |       |             |       |             |
| Digital inputs protected against short circuits |  | yes                       |       |             |       |             |
| Sensor supply of the inputs                     |  | AS-i                      |       |             |       |             |
| Outputs                                         |  |                           |       |             |       |             |
| Electrical design                               |  | AS-i                      |       |             |       |             |
| Number of pneumatic outputs                     |  | 2                         |       |             |       |             |
| Operating conditions                            |  |                           |       |             |       |             |
| Ambient temperature [°C]                        |  | -10...55                  |       |             |       |             |
| Protection                                      |  | IP 65; IP 67              |       |             |       |             |
| Tests / approvals                               |  |                           |       |             |       |             |
| EMC                                             |  | EN 50295                  |       |             |       |             |
|                                                 |  | IEC 61000-6-2             |       |             |       |             |
| MTTF [years]                                    |  | 287                       |       |             |       |             |
| AS-i classification                             |  |                           |       |             |       |             |
| AS-i version                                    |  | 2.11 + 3.0                |       |             |       |             |
| AS-i addressing                                 |  | addressing socket         |       |             |       |             |
| Extended addressing mode possible               |  | no                        |       |             |       |             |
| AS-i profile                                    |  | S-7.F.F                   |       |             |       |             |
| AS-i I/O configuration [hex]                    |  | 7                         |       |             |       |             |
| AS-i ID code [hex]                              |  | F.F                       |       |             |       |             |
| AS-i certificate pending                        |  | yes                       |       |             |       |             |
| 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           |



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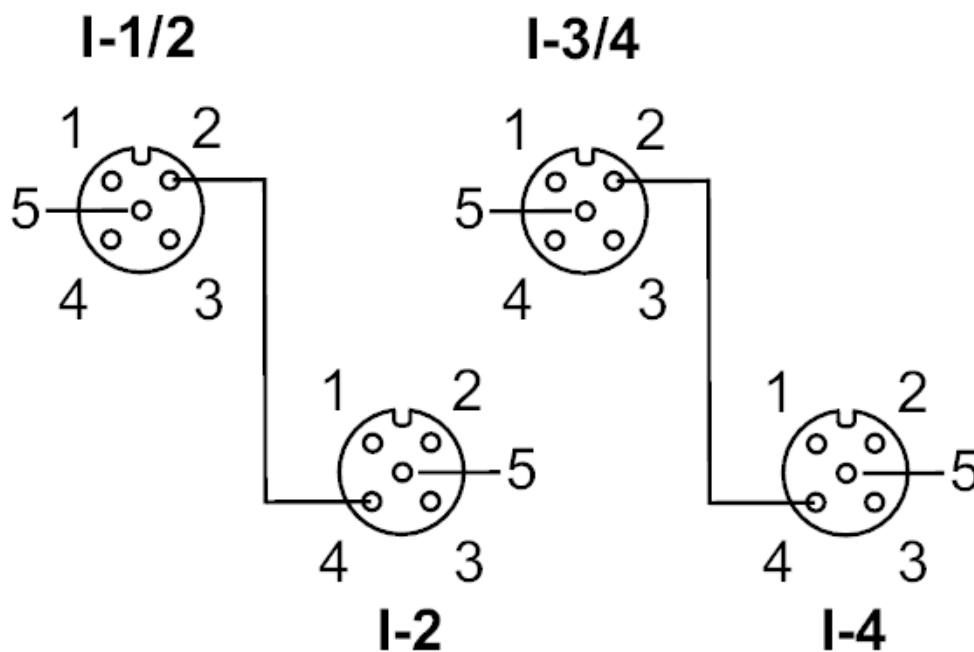
AirBox 2x3/2 2x2DI IP67

| Mechanical data               |           |                                                                                     |
|-------------------------------|-----------|-------------------------------------------------------------------------------------|
| Weight                        | [g]       | 381.6                                                                               |
| Type of mounting              |           | AS-i flat cables directly connectable                                               |
| Materials                     |           | PA; POM; piercing contacts: CuSn6 nickel-plated and tin-plated;                     |
| Pneumatic system              |           | 2 x 3/2-way slide valves (free from overlapping)                                    |
| Operating pressure range      | [bar]     | 2...8                                                                               |
| Operating pressure range      | [MPa]     | 0.2...0.8                                                                           |
| Operating pressure range      | [psi]     | 29...116                                                                            |
| Air flow at 6/5 bar           | [l/min]   | 500                                                                                 |
| 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                                      |
| Tube fittings                 |           | 8                                                                                   |
| Exhaust                       |           | exhaust can be discharged through tube connection                                   |
| Displays / operating elements |           |                                                                                     |
| Display                       | operation | LED, green                                                                          |
|                               | errors    | LED, red                                                                            |
|                               | function  | LED, yellow                                                                         |
| Accessories                   |           |                                                                                     |
| Accessories (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.                     |
| Pack quantity                 |           | Notes on compressed air and EMC/ESD at <a href="http://www.ifm.com">www.ifm.com</a> |
|                               |           | 1 pcs.                                                                              |

### Electrical connection

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

### Connection





## AS-Interface Airbox with quick mounting technology

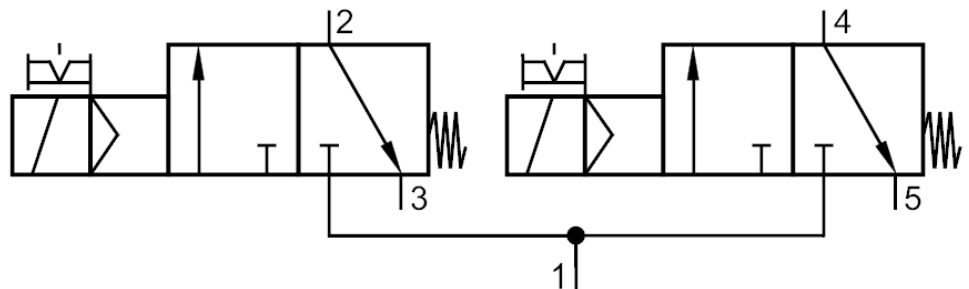
AirBox 2x3/2 2x2DI IP67

| 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            | voltage 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          |

Connector: M12

### Diagrams and graphs

Pneumatic symbol



2 x 3/2-way slide valves (free from overlapping)