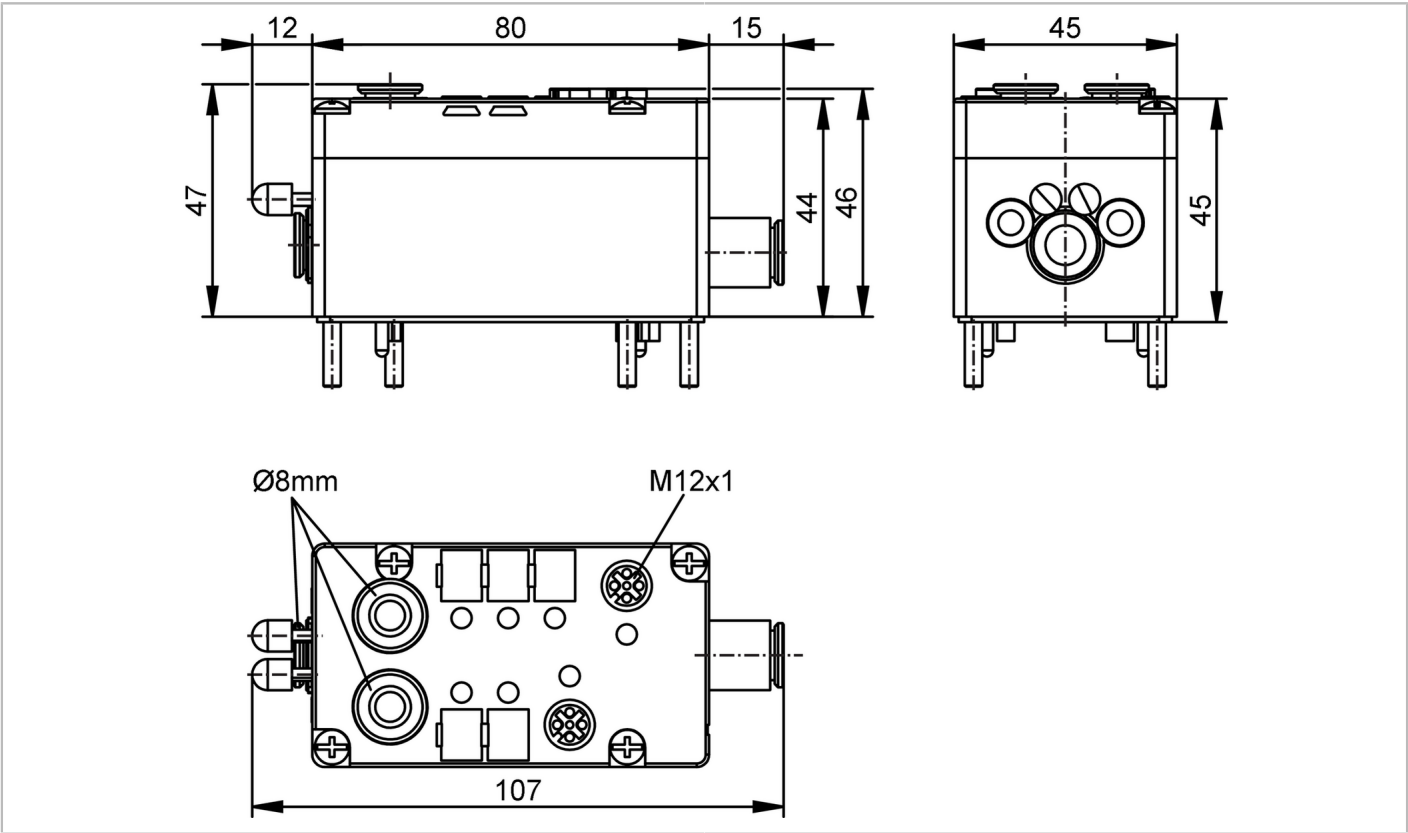


# AC2055



## AS-Interface Airbox

AirBox 2x2DI 2PO M12 V2A



| Application                                     |                                                             |                |
|-------------------------------------------------|-------------------------------------------------------------|----------------|
| Application                                     | field installation; for use in wet environments             |                |
| Electrical data                                 |                                                             |                |
| Operating voltage                               | [V]                                                         | 26.5...31.6 DC |
| Max. current consumption from AS-i              | [mA]                                                        | 170            |
| 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; (2 x 2)     |
| Input circuit of digital inputs                 |                                                             | PNP            |
| Sensor supply of the inputs                     |                                                             | AS-i           |
| Voltage supply                                  | [V]                                                         | 20...30        |
| Max. total current rating of inputs             | [mA]                                                        | 100            |
| Input current High                              | [mA]                                                        | > 3            |
| Input current low                               | [mA]                                                        | < 1.5          |
| Switching level high                            | [V]                                                         | > 10           |
| Digital inputs protected against short circuits |                                                             | yes            |



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| Outputs                        |  |                                                                                                                                                    |     |                                |          |           |
|--------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------|----------|-----------|
| Number of pneumatic outputs    |  | 2                                                                                                                                                  |     |                                |          |           |
| Actuator supply outputs        |  | AS-i                                                                                                                                               |     |                                |          |           |
| Operating conditions           |  |                                                                                                                                                    |     |                                |          |           |
| Ambient temperature            |  | [°C]0...55                                                                                                                                         |     |                                |          |           |
| Note on ambient temperature    |  | with special compressed air treatment: < 0 °C                                                                                                      |     |                                |          |           |
|                                |  | the derating of the current load indicated in the operating instructions is to be taken into account at the following ambient temperature: > 50 °C |     |                                |          |           |
| Storage temperature            |  | [°C]-20...80                                                                                                                                       |     |                                |          |           |
| Max. relative air humidity     |  | [%]90; (non condensing)                                                                                                                            |     |                                |          |           |
| Max. height above sea level    |  | [m]2000                                                                                                                                            |     |                                |          |           |
| Protection                     |  | IP 67                                                                                                                                              |     |                                |          |           |
| Pollution degree               |  | 2                                                                                                                                                  |     |                                |          |           |
| Tests / approvals              |  |                                                                                                                                                    |     |                                |          |           |
| EMC                            |  | EN 62026-2                                                                                                                                         |     |                                |          |           |
|                                |  | EN IEC 61000-6-2                                                                                                                                   |     |                                |          |           |
|                                |  | EN IEC 61000-6-4                                                                                                                                   |     |                                |          |           |
|                                |  | EN IEC 61326-1                                                                                                                                     |     |                                |          |           |
| AS-i classification            |  |                                                                                                                                                    |     |                                |          |           |
| Extended addressing mode       |  | no                                                                                                                                                 |     |                                |          |           |
| AS-i master profile            |  | M2; M3; M4                                                                                                                                         |     |                                |          |           |
| AS-i profile                   |  | S-7.F.F                                                                                                                                            |     |                                |          |           |
| AS-i I/O configuration         |  | [hex]7                                                                                                                                             |     |                                |          |           |
| AS-i ID code                   |  | [hex]F.F                                                                                                                                           |     |                                |          |           |
| Data bits                      |  | Data bit                                                                                                                                           | D0  | D1                             | D2       | D3        |
|                                |  | Inputs / outputs                                                                                                                                   | I-1 | I-2                            | I-3/ O-3 | I-4 / O-4 |
|                                |  | Pin                                                                                                                                                | 4   | 2                              | 4        | 2         |
| Mechanical data                |  |                                                                                                                                                    |     |                                |          |           |
| Weight                         |  | [g]263.5                                                                                                                                           |     |                                |          |           |
| Housing                        |  | rectangular                                                                                                                                        |     |                                |          |           |
| Type of mounting               |  | AS-i interface to FC and SC lower parts                                                                                                            |     |                                |          |           |
| Dimensions                     |  | [mm]107 x 45 x 47                                                                                                                                  |     |                                |          |           |
| Material                       |  | housing: PBT; metal parts: stainless steel (1.4305 / 303); sealing: FKM                                                                            |     |                                |          |           |
| Pneumatic system               |  | 2 x 3/2-way seat valves                                                                                                                            |     |                                |          |           |
| Operating pressure range       |  | [bar]2...8                                                                                                                                         |     |                                |          |           |
| Note on working pressure range |  | incl. possible pressure peaks                                                                                                                      |     |                                |          |           |
| Air flow at 6/5 bar            |  | [l/min]350                                                                                                                                         |     |                                |          |           |
| Air flow at 6/0 bar            |  | [l/min]550                                                                                                                                         |     |                                |          |           |
| Permissible compressed air     |  | filtered (5 µm); lubricated (ISO-VG10) or not lubricated                                                                                           |     |                                |          |           |
| Tube fittings                  |  | Legris LF 3000/8                                                                                                                                   |     |                                |          |           |
| Exhaust                        |  | exhaust can be discharged through tube connection                                                                                                  |     |                                |          |           |
| Displays / operating elements  |  |                                                                                                                                                    |     |                                |          |           |
| Display                        |  | Power                                                                                                                                              |     | LED, green (AS-i)              |          |           |
|                                |  | Switching status                                                                                                                                   |     | LED, yellow (I1...I4, O3...O4) |          |           |



AS-Interface Airbox

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| Electrical connection                       |                                                                      |
|---------------------------------------------|----------------------------------------------------------------------|
| Module connection                           | Flat cable                                                           |
| Accessories                                 |                                                                      |
| Accessories (optional)                      | Silencer:, E75232                                                    |
| Remarks                                     |                                                                      |
| Remarks                                     | Please see the notes on compressed air and EMC/ESD under "Downloads" |
| Pack quantity                               | 1 pcs.                                                               |
| Electrical connection - Socket I-1/2        |                                                                      |
| contact pins to module lower part, FK / PG: |                                                                      |
| Connector: M12; coding: A; Contacts: 4      |                                                                      |
|                                             |                                                                      |
| 1                                           | Inputs                                                               |
| 2                                           | Sensor supply L+                                                     |
| 3                                           | Data input I2                                                        |
| 4                                           | Sensor supply L-                                                     |
| 5                                           | Data input I1                                                        |
| 5                                           | not used                                                             |
| Electrical connection - Socket I-3/4        |                                                                      |
| contact pins to module lower part, FK / PG: |                                                                      |
| Connector: M12; coding: A; Contacts: 4      |                                                                      |
|                                             |                                                                      |
| 1                                           | Inputs                                                               |
| 2                                           | Sensor supply L+                                                     |
| 3                                           | Data input I4                                                        |
| 4                                           | Sensor supply L-                                                     |
| 5                                           | Data input I3                                                        |
| 5                                           | not used                                                             |