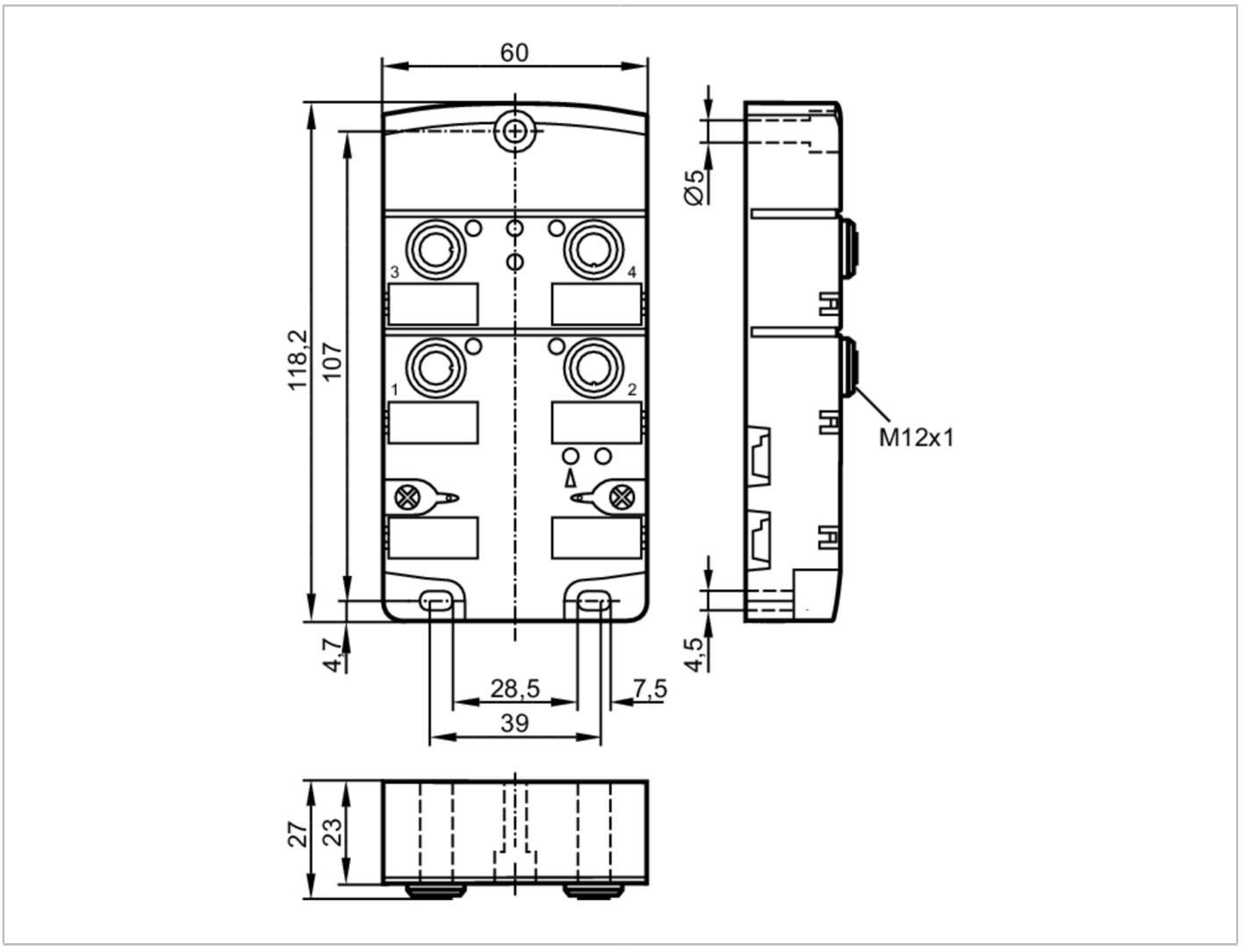
# AC2458

## AS-Interface CompactLine module

**CompactLM12 2DI-Y 2DO T**




| | | |
|---|---|---|
| **Application** | | |
| Application | | field installation |
| **Electrical data** | | |
| Operating voltage | [V] | 26.5...31.6 DC |
| Max. current consumption from AS-i | [mA] | 250 |
| Max. current load total | [A] | 4 |
| Additional voltage supply | [V] | 10...30 DC;  (AUX) |
| Max. current consumption from additional supply | [mA] | 4000;  (AUX) |
| Integrated watchdog | | yes |
| **Inputs / outputs** | | |
| Number of inputs and outputs | | Number of digital inputs: 2; Number of digital outputs: 2 |
| **Inputs** | | |
| Number of digital inputs | | 2 |
| Input circuit of digital inputs | | PNP;  (type 2 according to IEC 61131-2) |

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| | | |
|---|---|---|
| Sensor supply of the inputs | | AS-i |
| Power supply | [V] | 20...30;  (DC) |
| Max. total current rating of inputs | [mA] | 200 |
| Input current limitation | [mA] | 15 |
| 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 digital outputs | | 2 |
| Circuit | | PNP |
| Voltage range DC | [V] | 10...30;  (AUX) |
| Max. current load per output | [mA] | 2000;  (utilisation category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1)) |
| Max. current load outputs total | [A] | 4 |
| Short-circuit proof | | yes |
| Electrically separated | | yes |
| Actuator supply outputs | | AUX |
| **Operating conditions** | | |
| Ambient temperature | [°C] | -25...80 |
| Storage temperature | [°C] | -25...80 |
| Max. relative air humidity | [%] | 90;  (non condensing) |
| Max. height above sea level | [m] | 2000 |
| Protection | | IP 67;  (when flat cables are used E7400x / E7401x) |
| **Tests / approvals** | | |
| EMC | | EN 61000-6-2 |
| | | EN 62026-2 |
| | | EN 50581 |
| MTTF | [years] | 252 |
| UL approval | | power supply: Class 2 |
| **AS-i classification** | | |
| AS-i version | | 2.11; 3.0 |
| AS-i addressing | | IR addressing possible |
| Extended addressing mode | | no |
| AS-i master profile | | M2; M3; M4 |
| AS-i profile | | S-3.F.E |
| AS-i I/O configuration | [hex] | 3 |
| AS-i ID code | [hex] | F.E |
| AS-i certificate | | 39501 |

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| | | | | | |
|---|---|---|---|---|---|
| Assignment of the data bits | data bit | D0 | D1 | D2 | D3 |
| | input | 1 | 2 | - | - |
| | socket | I-1/2 | I-1/2 / I-2 | - | - |
| | pin | 4 | 2 / 4 | - | - |
| | Output | - | - | 3 | 4 |
| | socket | - | - | O-3 | O-4 |
| | pin | - | - | 4 | 4 |

### Mechanical data

| | | |
|---|---|---|
| Weight | [g] | 291.5 |
| Type of mounting | | AS-i flat cables directly connectable |
| Materials | | PA; socket: brass nickel-plated; threaded inserts in the lower part: brass nickel-plated; O-ring: FKM; piercing contacts: CuSn6 nickel-plated and tin-plated |

### Displays / operating elements

| | | |
|---|---|---|
| Display | switching status | LED, yellow I1...I2, O1...O2 |
| | operation | LED, green AS-i, AUX |
| | errors | LED, red |

### Electrical connection

| | |
|---|---|
| Module connection | Flat cables |

### Accessories

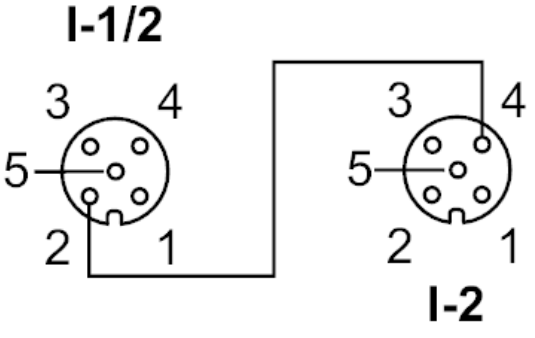
| | |
|---|---|
| Accessories (optional) | Stainless steel sleeve, for installation in case of high mechanical stress , E70402 |

### Remarks

| | |
|---|---|
| Remarks | Do not connect any of the following points to an external potential: |
| | I-, I+, I1, I2 |
| | The connections are electrically connected with the AS-i cable. |
| Pack quantity | 1 pcs. |

### Electrical connection - Inputs

Connection




Connector: M12

| | Inputs |
|---|---|
| 1 | Sensor supply + |
| 2 | data input |
| 3 | Sensor supply - |
| 4 | data input |
| 5 | functional earth (FE) |

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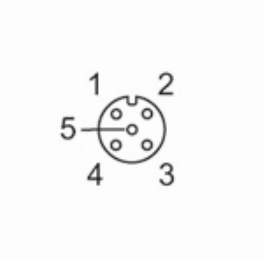
## Electrical connection - Outputs

Connector:  M12; coding: A




| | Outputs |
|---|---|
| 3 | external voltage AUX - |
| 4 | switching output |
| 5 | functional earth (FE) |
| 1, 2 | not used |