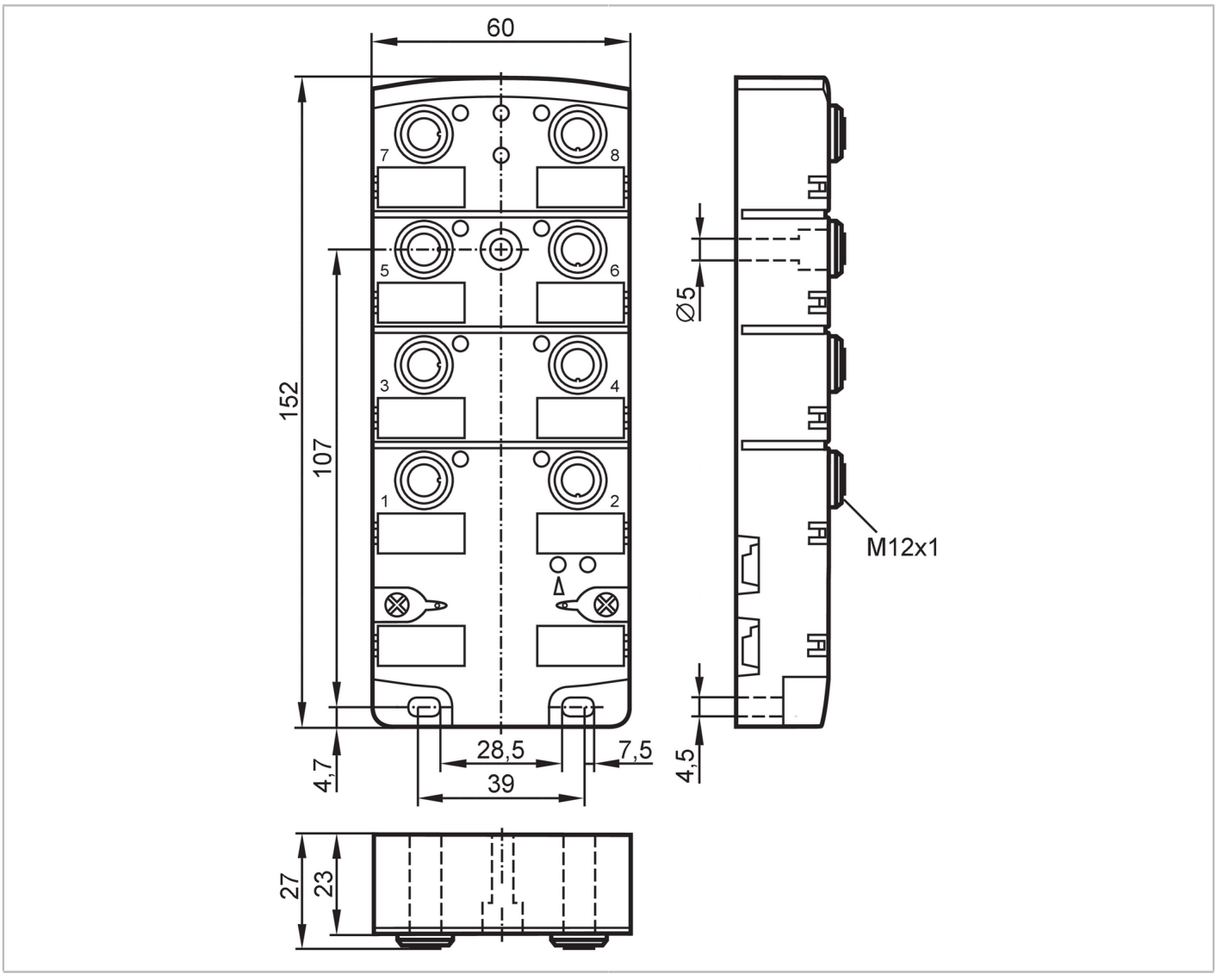
# AC2412

## AS-Interface CompactLine module

**CompactModule 4DI 4DO T M12**




| | | |
|---|---|---|
| **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: 4; Number of digital outputs: 4 |
| **Inputs** | | |
| Number of digital inputs | | 4 |

# AC2412

## AS-Interface CompactLine module

**CompactModule 4DI 4DO T M12**

| | | | |
|---|---|---|---|
| Input circuit of digital inputs | | PNP; (type 2 according to IEC 61131-2) | |
| Sensor supply of the inputs | | AS-i | |
| Voltage 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 | | 4 | |
| 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)) | |
| Total current rating of all outputs | [A] | 4 | |
| Short-circuit proof | | yes | |
| Electrically separated | | yes | |
| Actuator supply outputs | | AUX | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Storage temperature | [°C] | -20...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] | 193 | |
| UL approval | | voltage 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-7.0.E | |
| AS-i I/O configuration | [hex] | 7 | |
| AS-i ID code | [hex] | 0.E | |
| AS-i certificate | | 46001 | |

# AC2412

## AS-Interface CompactLine module

**CompactModule 4DI 4DO T M12**

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

## Mechanical data

| | | |
|---|---|---|
| Weight | [g] | 376.5 |
| Housing | | rectangular |
| Type of mounting | | AS-i flat cables directly connectable; backplane mounting |
| Dimensions | [mm] | 152 x 60 x 27 |
| 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...I4, O1...O4 |
| | operation | LED, green AS-i, AUX |
| | errors | LED, red |

## Electrical connection

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

## Accessories

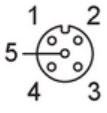
| | |
|---|---|
| Accessories (optional) | Stainless steel sleeve, for installation in case of high mechanical stress , E70402 |

## Remarks

| | |
|---|---|
| Remarks | Do not connect any of the following points to an external potential: |
| | I-, I+, I1, I2, I3, I4 |
| | The connections are electrically connected with the AS-i cable. |
| Pack quantity | 1 pcs. |

## Electrical connection - Inputs

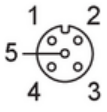
Connector: M12; coding: A; Contacts: 5




| | Inputs |
|---|---|
| 1 | Sensor supply L+ |
| 2+4 | data input 1 internally bridged |
| 3 | Sensor supply L- |
| 5 | functional earth |

## Electrical connection - Outputs

Connector: M12; coding: A; Contacts: 3




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