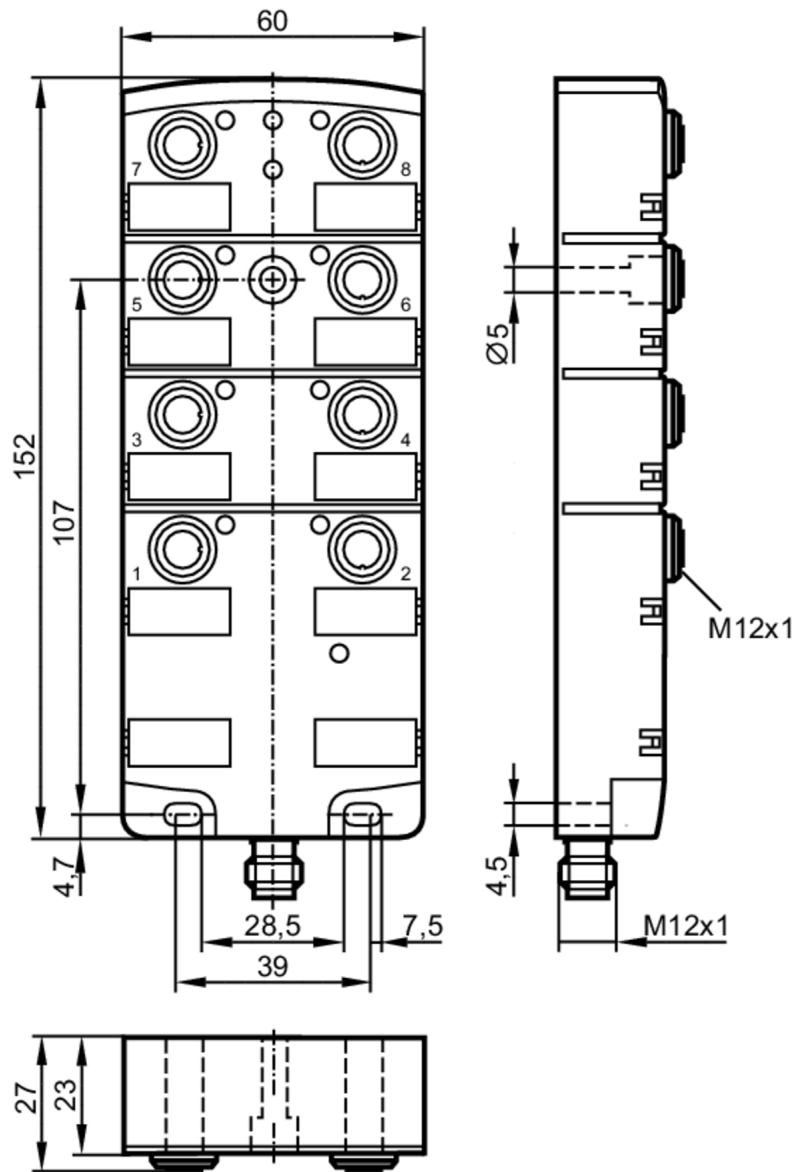


# AC2465



## AS-Interface CompactLine module

CompactLineM12 4DI 4DO 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               |



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| Inputs / outputs                                |                                                                                      |         |
|-------------------------------------------------|--------------------------------------------------------------------------------------|---------|
| Number of inputs and outputs                    | Number of digital inputs: 4; Number of digital outputs: 4                            |         |
| Inputs                                          |                                                                                      |         |
| Number of digital inputs                        | 4                                                                                    |         |
| 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; (utilization 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]                                    | 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                                                                                  |         |



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|                  |          |     |     |     |     |
|------------------|----------|-----|-----|-----|-----|
| AS-i certificate | 46001    |     |     |     |     |
| 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]                                          | 386 |
| Material | PA; Socket: brass nickel-plated; O-ring: FKM |     |

Displays / operating elements

|         |                  |                              |
|---------|------------------|------------------------------|
| Display | Switching status | LED, yellow I1...I4, O1...O4 |
|         | Power            | LED, green AS-i, AUX         |
|         | errors           | LED, red                     |

Electrical connection

|                   |     |
|-------------------|-----|
| Module connection | M12 |
|-------------------|-----|

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 - AS-i

Connector: M12; coding: A

|   |        |
|---|--------|
| 1 | AS-i + |
| 2 | AUX -  |
| 3 | AS-i - |
| 4 | AUX +  |

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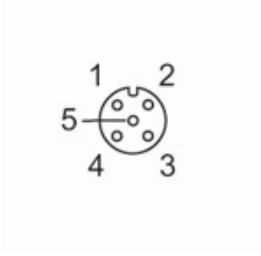


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CompactLineM12 4DI 4DO M12

### Electrical connection - Inputs

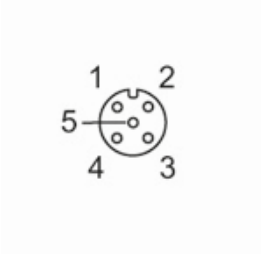
Connector: M12; coding: A



| 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



| Outputs |                        |
|---------|------------------------|
| 3       | External voltage AUX - |
| 4       | Switching output       |
| 5       | functional earth (FE)  |