



AS-Interface CompactLine module

CompactLM12 4DI-Y M12 IP67



Application

Application

field installation

Electrical data

Operating voltage

[V]

26.5...31.6 DC

Max. current consumption  
from AS-i

[mA]

250

Inputs / outputs

Number of inputs and outputs

Number of digital inputs: 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



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|                                                 |      |        |
|-------------------------------------------------|------|--------|
| Input current High                              | [mA] | 6...10 |
| Input current low                               | [mA] | 0...2  |
| Switching level high                            | [V]  | > 11   |
| Digital inputs protected against short circuits |      | yes    |

## 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]        | 383     |
| 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 | yes                    |       |             |       |             |
| AS-i master profile      | M2; M3; M4             |       |             |       |             |
| AS-i profile             | S-0.A.E                |       |             |       |             |
| AS-i I/O configuration   | [hex]                  | 0     |             |       |             |
| AS-i ID code             | [hex]                  | A.E   |             |       |             |
| AS-i certificate         | 40301                  |       |             |       |             |
| 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         |

## Mechanical data

|                  |                                                                                                                                                              |                 |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Weight           | [g]                                                                                                                                                          | 289.5           |
| Housing          | rectangular                                                                                                                                                  |                 |
| Type of mounting | AS-i flat cable connection; Backplane mounting                                                                                                               |                 |
| Dimensions       | [mm]                                                                                                                                                         | 118.2 x 60 x 27 |
| Material         | 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 |
|         | Power            | LED, green AS-i     |
|         | errors           | LED, red            |

## Electrical connection

|                   |            |
|-------------------|------------|
| Module connection | Flat cable |
|-------------------|------------|

## Accessories

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



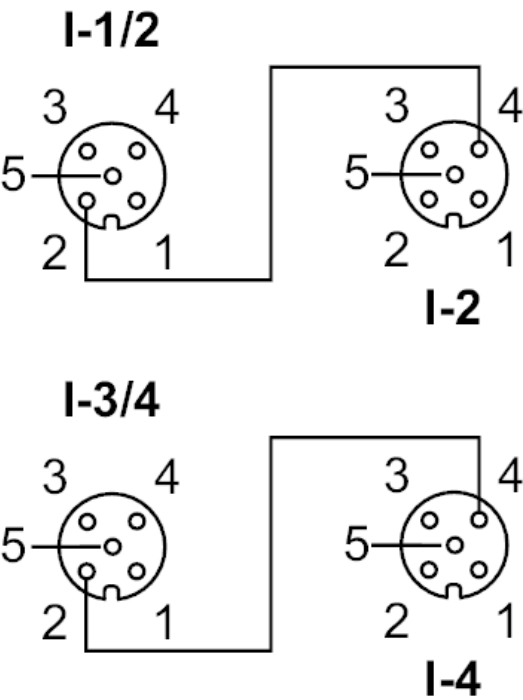
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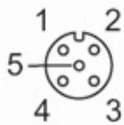
| Remarks       |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Remarks       | Do not connect any of the following points to an external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

Electrical connection

Connection



Connector: 4 x M12; coding: A



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