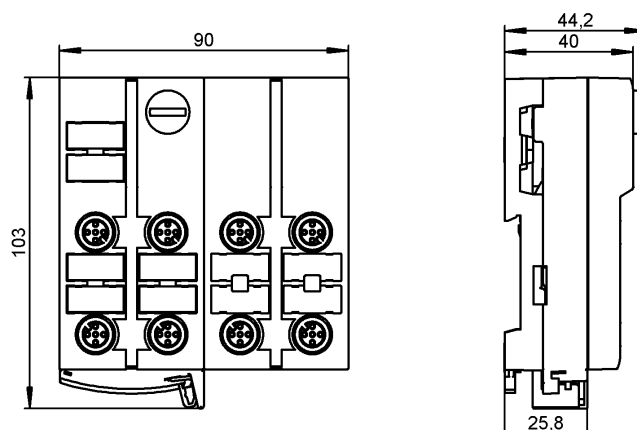


## AC5235

ClassicLine 4DI-Y 4DO-Y IP67

Bus system AS-Interface



Made in Germany

### Product characteristics

Active ClassicLine module

AS-i flat cable connection

Sockets M12 x 1

Only for operation with AS-i masters with the profile M4

Addressing socket

Three orientations of the flat cable are possible

Version 3.0 with extended addressing mode

Digital inputs and outputs

### Electrical data

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| Electrical design                        | 4 inputs / 4 outputs; bidirectional        |
| Operating voltage [V]                    | 26.5...31.6 DC; "supply class 2" to cULus. |
| Total current consumption from AS-i [mA] | < 250                                      |
| Max. current load per module [mA]        | 2000                                       |

### Inputs

|                                             |                |
|---------------------------------------------|----------------|
| Digital                                     |                |
| Circuit                                     | DC PNP         |
| Sensor supply                               | AS-i           |
| Voltage range [V]                           | 18...30 DC **) |
| Max. current load for all inputs total [mA] | 200            |
| Input current High/Low [mA]                 | 6...10 / 0...2 |
| Switching level High signal 1 [V]           | > 11           |
| Short-circuit proof                         | yes            |

### Outputs

|                                   |                        |
|-----------------------------------|------------------------|
| Digital                           |                        |
| Output function                   | transistor PNP         |
| Voltage range [V]                 | 24 DC (15...30 DC) **) |
| External voltage supply           | according to PELV      |
| Max. current load per output [mA] | 1000*)                 |
| Electrically separated            | yes                    |

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|                     |     |
|---------------------|-----|
| Integrated watchdog | yes |
| Short-circuit proof | yes |

| Environment              |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
| Protection               | IP 67    |

| Tests / approvals |                           |
|-------------------|---------------------------|
| EMC               | EN 50295<br>IEC 61000-6-2 |
| MTTF [Years]      | 155                       |

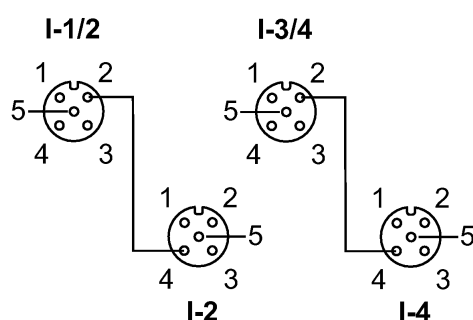
| AS-i classification               |                   |       |           |       |           |
|-----------------------------------|-------------------|-------|-----------|-------|-----------|
| Extended addressing mode possible | version 3.0 / yes |       |           |       |           |
| AS-i profile                      | S-7.A.7           |       |           |       |           |
| I/O configuration [hex]           | 7                 |       |           |       |           |
| ID code [Hex]                     | A.7               |       |           |       |           |
| AS-i certificate                  | in preparation    |       |           |       |           |
| 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       |
|                                   | Output            | 1     | 2         | 3     | 4         |
|                                   | Socket            | O-1/2 | O-1/2 O2  | O-3/4 | O-3/4 O-4 |
|                                   | Pin               | 4     | 2 4       | 4     | 2 4       |

| Mechanical data   |                                                            |
|-------------------|------------------------------------------------------------|
| Housing materials | PA; Piercing contacts: CuSn6 surface nickel and tin-plated |
| Weight [kg]       | 0.304                                                      |

| Displays / operating elements |        |
|-------------------------------|--------|
| Operation LED                 | green  |
| Error LED                     | Red    |
| Function display LED          | yellow |

### Electrical connection

#### Wiring



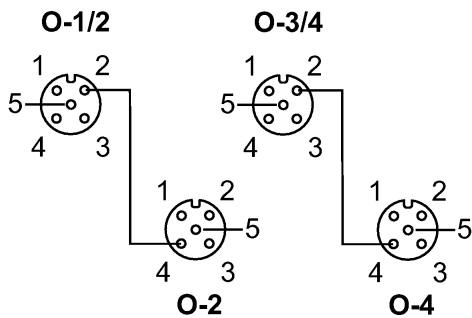
| Inputs              | Socket I-3/4        |
|---------------------|---------------------|
| Socket I-1/2        | 1: Power supply L+  |
| 1: Sensor supply L+ | 2: Data input 4     |
| 2: Data input 2     | 3: Sensor supply L- |
| 3: Sensor supply L- | 4: Data input 3     |
| 4: Data input 1     | 5: not used         |
| 5: not used         |                     |
| Socket I-2          | Socket I-4          |
| 1: Sensor supply L+ | 1: Sensor supply L+ |
| 2: not used         | 2: not used         |
| 3: Sensor supply L- | 3: Sensor supply L- |
| 4: Data input 2     | 4: Data input 4     |
| 5: not used         | 5: not used         |



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|                       |                       |
|-----------------------|-----------------------|
| Outputs               | Socket O-3/4          |
| Socket O-1/2          | 1: not used           |
| 1: not used           | 2: Switching output 4 |
| 2: Switching output 2 | 3: External voltage   |
| 3: External voltage   | AUX -                 |
| AUX -                 | 4: Switching output 3 |
| 4: Switching output 1 | 5: not used           |
| 5: not used           |                       |
|                       | Socket O-4            |
| Socket O-2            | 1: not used           |
| 1: not used           | 2: not used           |
| 2: not used           | 3: External voltage   |
| 3: External voltage   | AUX -                 |
| AUX -                 | 4: Switching output 4 |
| 4: Switching output 2 | 5: not used           |
| 5: not used           |                       |

Accessories

|                        |                             |
|------------------------|-----------------------------|
| Accessories (included) | lower part                  |
| Accessories (optional) | M12 protective cap (E73004) |

Remarks

|         |                                                                                                                                                                                                                                                                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | Inputs and outputs must be electrically isolated.<br>Do not connect any of the points I-, I+, I1, I2, I3, I4 to an external potential since they are electrically connected to the AS-i cable.<br>*) Utilisation category (DC13): The switch-on and switch-off capacity for the triggering of solenoids is rated up to 20 W (to IEC 60947-5-1)<br>**) via flat cable |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|               |         |   |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|