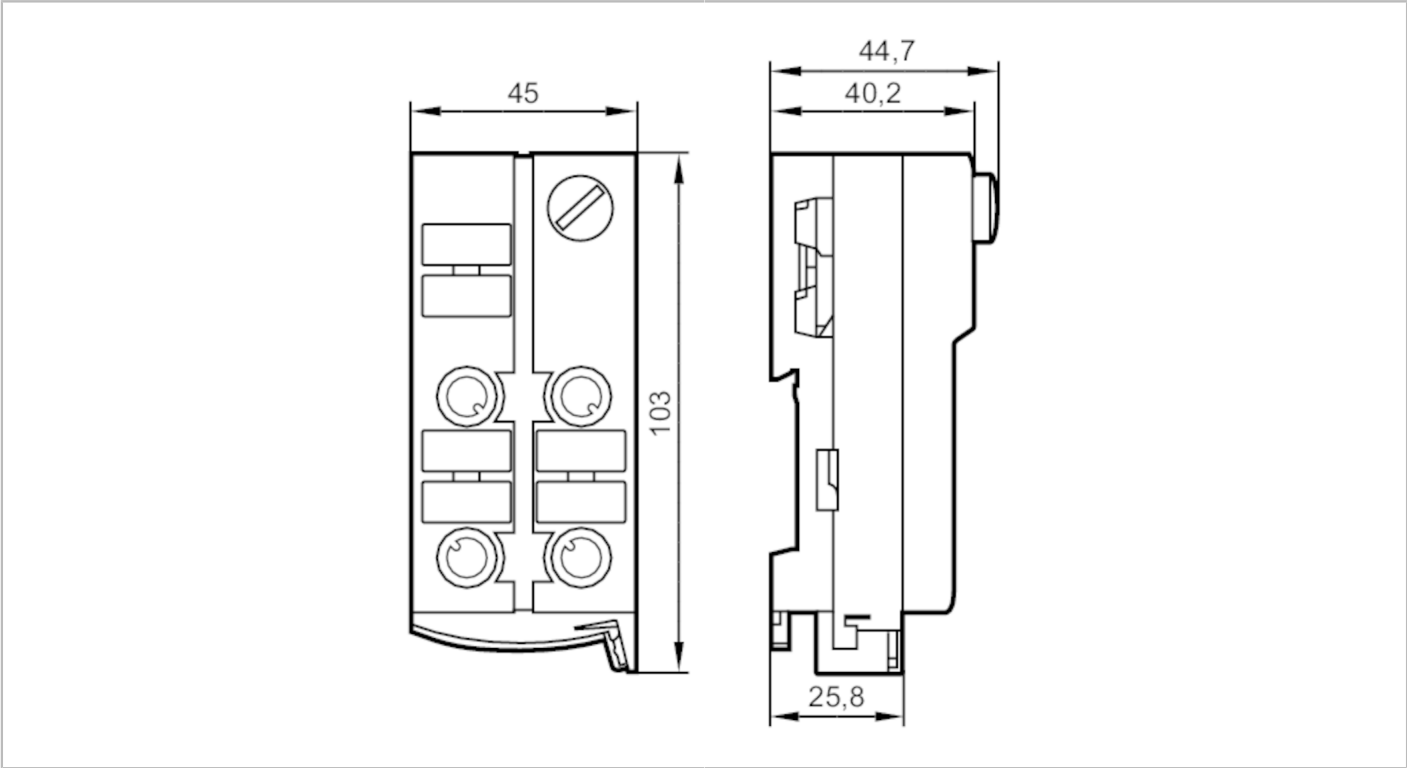


# AC5230



## AS-Interface ClassicLine module with quick mounting technology

ClassicLine 1AI C 1AO C 2DI



| Product characteristics                 |                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------|
| Number of inputs and outputs            | Number of digital inputs: 2; Number of analog inputs: 1; Number of analog outputs: 1 |
| Application                             |                                                                                      |
| Design                                  | Only for operation with AS-i masters with the profile M4                             |
| Application                             | field installation                                                                   |
| Electrical data                         |                                                                                      |
| Operating voltage [V]                   | 26.5...31.6 DC; (cULus - Class 2 source required)                                    |
| Max. current consumption from AS-i [mA] | 250                                                                                  |
| Reverse polarity protection             | yes                                                                                  |
| Max. current load total [A]             | 0.2                                                                                  |
| Inputs / outputs                        |                                                                                      |
| Number of inputs and outputs            | Number of digital inputs: 2; Number of analog inputs: 1; Number of analog outputs: 1 |



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| Inputs                                                |               |                                          |     |           |       |          |  |
|-------------------------------------------------------|---------------|------------------------------------------|-----|-----------|-------|----------|--|
| Number of digital inputs                              | 2             |                                          |     |           |       |          |  |
| Input circuit of digital inputs                       | PNP           |                                          |     |           |       |          |  |
| Sensor supply of the inputs                           | AS-i          |                                          |     |           |       |          |  |
| Voltage supply [V]                                    | 18...30       |                                          |     |           |       |          |  |
| Number of analog inputs                               | 1             |                                          |     |           |       |          |  |
| Analog input (current) [mA]                           | 4...20        |                                          |     |           |       |          |  |
| Max. voltage drop across load for nominal voltage [V] | 10            |                                          |     |           |       |          |  |
| Analog inputs protected against short circuits        | yes           |                                          |     |           |       |          |  |
| Resolution of analog input                            | 12 bit        |                                          |     |           |       |          |  |
| Outputs                                               |               |                                          |     |           |       |          |  |
| Number of analog outputs                              | 1             |                                          |     |           |       |          |  |
| Analog current output [mA]                            | 4...20        |                                          |     |           |       |          |  |
| Max. voltage drop across load for nominal current [V] | 10            |                                          |     |           |       |          |  |
| Resolution of analog output                           | 12 bit        |                                          |     |           |       |          |  |
| Actuator supply outputs                               | AS-i          |                                          |     |           |       |          |  |
| Accuracy / deviations                                 |               |                                          |     |           |       |          |  |
| Measuring error [% of the final value]                | 0,5           |                                          |     |           |       |          |  |
| Operating conditions                                  |               |                                          |     |           |       |          |  |
| Ambient temperature [°C]                              | -25...70      |                                          |     |           |       |          |  |
| Protection                                            | IP 67         |                                          |     |           |       |          |  |
| Tests / approvals                                     |               |                                          |     |           |       |          |  |
| EMC                                                   | EN 50295      |                                          |     |           |       |          |  |
|                                                       | IEC 61000-6-2 |                                          |     |           |       |          |  |
| MTTF [years]                                          | 137           |                                          |     |           |       |          |  |
| AS-i classification                                   |               |                                          |     |           |       |          |  |
| AS-i version                                          | 3.0           |                                          |     |           |       |          |  |
| Extended addressing mode                              | no            |                                          |     |           |       |          |  |
| AS-i profile                                          | S-7.5.5       |                                          |     |           |       |          |  |
| AS-i I/O configuration [hex]                          | 7             |                                          |     |           |       |          |  |
| AS-i ID code [hex]                                    | 5.5           |                                          |     |           |       |          |  |
| Parameter bits                                        | Parameter bit | Function                                 |     |           |       |          |  |
|                                                       | P0            | watchdog analog output                   | : 1 | activated | * / 0 | disabled |  |
|                                                       | P1            | peripheral fault indication analog input | : 1 | activated | * / 0 | disabled |  |
|                                                       | P2            | peripheral fault indication              | : 1 | activated | * / 0 | disabled |  |



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|  |    |               |     |               |  |  |  |
|--|----|---------------|-----|---------------|--|--|--|
|  |    | analog output |     |               |  |  |  |
|  | P3 | not used      | : 1 | default value |  |  |  |

### Mechanical data

|            |                                                           |
|------------|-----------------------------------------------------------|
| Weight [g] | 198                                                       |
| Material   | PA; Piercing contacts: CuSn6 nickel-plated and tin-plated |

### Displays / operating elements

|         |          |             |
|---------|----------|-------------|
| Display | Power    | LED, green  |
|         | errors   | LED, red    |
|         | Function | LED, yellow |

### Electrical connection

|                   |            |
|-------------------|------------|
| Module connection | Flachkabel |
|-------------------|------------|

### Accessories

|                        |                             |
|------------------------|-----------------------------|
| Items supplied         | lower part                  |
| Accessories (optional) | Protective cap: M12, E73004 |

### Remarks

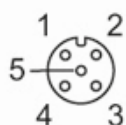
|               |                                                                                                         |
|---------------|---------------------------------------------------------------------------------------------------------|
| Remarks       | 3-wire connection possible via external link.                                                           |
|               | The actuator supply on pins 1 and 3 can be used to supply the sensors / actuators.                      |
|               | In this case, an electrical isolation to AS-i is not given.                                             |
|               | The analog inputs and outputs (pins 2 and 4) are electrically separated and have no connection to AS-i. |
|               | Do not connect any of the following points to an external potential:                                    |
|               | I-1/2, I-2, Pin 1, Pin 3                                                                                |
| Pack quantity | 1 pcs.                                                                                                  |

### Electrical connection

; Maximum cable length: 30 m  
quick mounting technology for AS-i flat cable: ; three selectable directions

### Electrical connection - analog

Connector: M12; Maximum cable length: 30 m





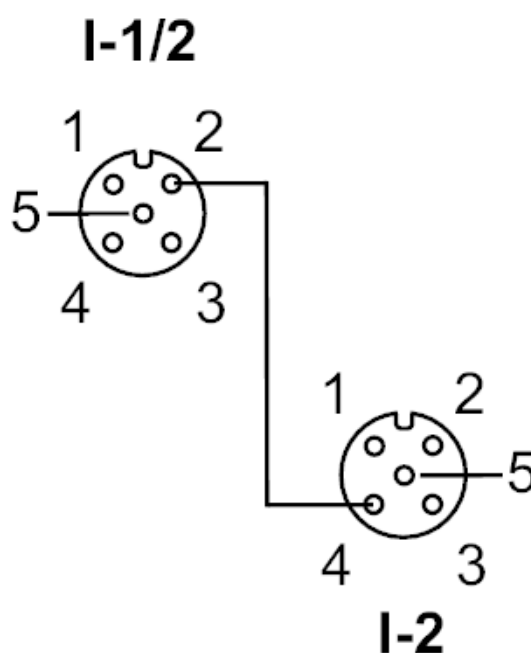
## AS-Interface ClassicLine module with quick mounting technology

ClassicLine 1AI C 1AO C 2DI

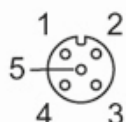
|   |                        |
|---|------------------------|
|   | analog input           |
| 1 | Sensor supply + 24 V   |
| 2 | analog input AI +      |
| 3 | Sensor supply 0 V      |
| 4 | analog input AI -      |
| 5 | functional earth       |
|   | analog output          |
| 1 | Actuator supply + 24 V |
| 2 | analog output AO +     |
| 3 | Actuator supply 0 V    |
| 4 | analog output AO -     |
| 5 | functional earth       |

### Electrical connection - digital

#### Connection



Connector: M12; Maximum cable length: 30 m





## AS-Interface ClassicLine module with quick mounting technology

ClassicLine 1AI C 1AO C 2DI

| Input        |                     |
|--------------|---------------------|
| Socket I-1/2 |                     |
| 1            | Sensor supply L+    |
| 2            | Data input 2        |
| 3            | Sensor supply L-    |
| 4            | Data input 1        |
| 5            | functional earth FE |
| Socket I-2   |                     |
| 1            | Sensor supply L+    |
| 2            | not used            |
| 3            | Sensor supply L-    |
| 4            | Data input 2        |
| 5            | functional earth FE |