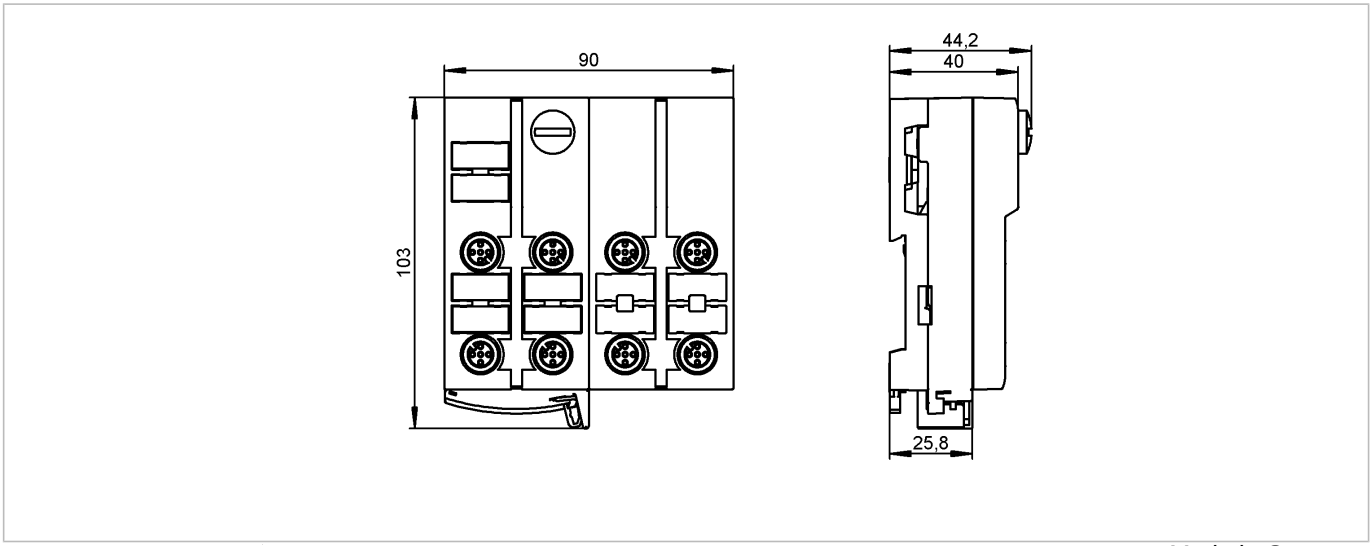
ecomat300

# AC5209

ClassicLine 4DI 4DO-Y IP67

**Bus system AS-Interface**




Made in Germany

## Product characteristics

Active ClassicLine module

AS-i flat cable connection

Sockets M12 x 1

Addressing socket

Three orientations of the flat cable are possible

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

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# AC5209

ClassicLine 4DI 4DO-Y IP67

**Bus system AS-Interface**

| | | |
|---|---|---|
| **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 2.11 and 3.0 / no |
| AS-i profile | | S-7.0.E |
| I/O configuration [hex] | | 7 |
| ID code [Hex] | | 0.E |
| AS-i certificate | | in preparation |

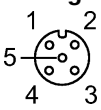
Data bits

| 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-1/2 | O-1/2 O2 | O-3/4 | O-3/4 O-4 |
| Pin | 4 | 2 4 | 4 | 2 4 |

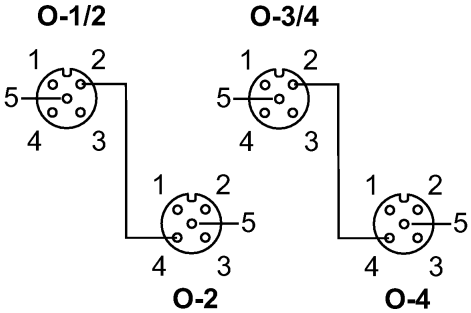
| | | |
|---|---|---|
| **Mechanical data** | | |
| Housing materials | | PA |
| Weight | [kg] | 0.306 |
| **Displays / operating elements** | | |
| Operation | LED | green |
| Error | LED | red |
| Function display | LED | yellow |

## Electrical connection

**Wiring**




Inputs
1: Sensor supply L+
2+4: Data input (internally bridged)
3: Sensor supply L-
5: not used




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

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

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

Socket O-4
1: not used
2: not used
3: External voltage AUX -
4: Switching output 4

## Accessories

| | |
|---|---|
| Accessories (included) | lower part |

| | |
|---|---|
| Accessories (optional) | M12 protective cap (E73004) |

## Remarks

| | |
|---|---|
| Remarks | *) 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<br>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. |
| Pack quantity [piece] | 1 |