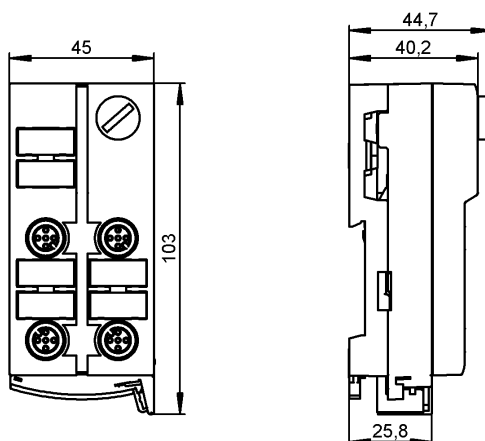


AC5230

ClassicLine 1AI C 1AO C 2DI

Bus system AS-Interface



Made in Germany

Product characteristics

Active classic module

Sockets M12 x 1

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

Electrical isolation

Three orientations of the flat cable are possible

Electrical data

Electrical design	2 digital inputs / 1 analogue input / 1 analogue output
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]	200
AS-i interface reverse polarity protection	yes

Inputs

Digital	
Circuit	PNP
Sensor supply	AS-i
Voltage range [V]	18...30 DC
analogue	
Analogue input	4...20 mA
Sensor supply	AS-i
Short-circuit proof	yes
Max. operating voltage [V]	33
Max. voltage drop across load for nominal current [V]	< 10
Resolution [Bit]	12
Electrically separated	yes (only if an external sensor / actuator supply is used)

Outputs

analogue	
current output [mA]	4...20
Actuator supply	AS-i

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Max. voltage drop across load for nominal current [V]	< 10
Electrically separated	yes (only if an external sensor / actuator supply is used)
Resolution [Bit]	12

Measuring / setting range	
value range	4000...20000

Accuracy / deviations	
Accuracy [% of the final value]	0.5

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

Tests / approvals	
EMC	EN 50295 IEC 61000-6-2
MTTF [Years]	137

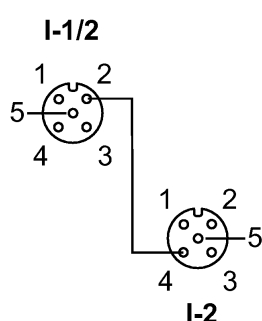
AS-i classification											
AS-i version	3.0										
Extended addressing mode possible	no										
AS-i profile	S-7.5.5										
I/O configuration [hex]	7										
ID code [Hex]	5.5										
Parameter bits	<table> <tr> <th>Parameter bit</th><th>Function</th></tr> <tr> <td>P0</td><td>watchdog on the analogue output 0: watchdog inactive, 1: watchdog active (default)</td></tr> <tr> <td>P1</td><td>signalling periphery fault analogue input 0: inactive, 1: active (default)</td></tr> <tr> <td>P2</td><td>signalling periphery fault analogue output 0: inactive, 1: active (default)</td></tr> <tr> <td>P3</td><td>not used, 1: default</td></tr> </table>	Parameter bit	Function	P0	watchdog on the analogue output 0: watchdog inactive, 1: watchdog active (default)	P1	signalling periphery fault analogue input 0: inactive, 1: active (default)	P2	signalling periphery fault analogue output 0: inactive, 1: active (default)	P3	not used, 1: default
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P2	signalling periphery fault analogue output 0: inactive, 1: active (default)										
P3	not used, 1: default										

Mechanical data	
Housing materials	PA; Piercing contacts: CuSn6 surface nickel and tin-plated
Weight [kg]	0.192

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

Electrical connection

Wiring



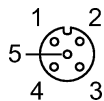
Input
Socket I-1/2
1: Sensor supply L+
2: Data input 2
3: Sensor supply L-
4: Data input 1
5: functional earth FE

Socket I-2
1: Sensor supply L+
2: not used
3: Sensor supply L-
4: Data input 2

AC5230

ClassicLine 1AI C 1AO C 2DI

Bus system AS-Interface



5: functional earth FE

analogue input

1: Sensor supply + 24 V

2: analogue input AI +

3: Sensor supply 0 V

4: analogue input AI -

5: functional earth

analogue output

1: Actuator supply + 24 V

2: analogue output AO +

3: Actuator supply 0 V

4: analogue output AO -

5: functional earth

Accessories

Accessories (included)

lower part

Accessories (optional)

M12 protective cap (E73004)

Remarks

Remarks

3-wire connection possible via external link.

If the supply on the pins 1 and 3 (+24 V, 0 V) is used for the sensor / actuator supply, an electrical separation to AS-i is no longer given. The analogue inputs and outputs (pins 2 and 4) are electrically separated and have no connection to AS-i.

Do not connect any of the points I-1/2, I-2 or pin 1 and 3 to an external potential since they are electrically connected to the AS-i cable.

Pack quantity

[piece]

1