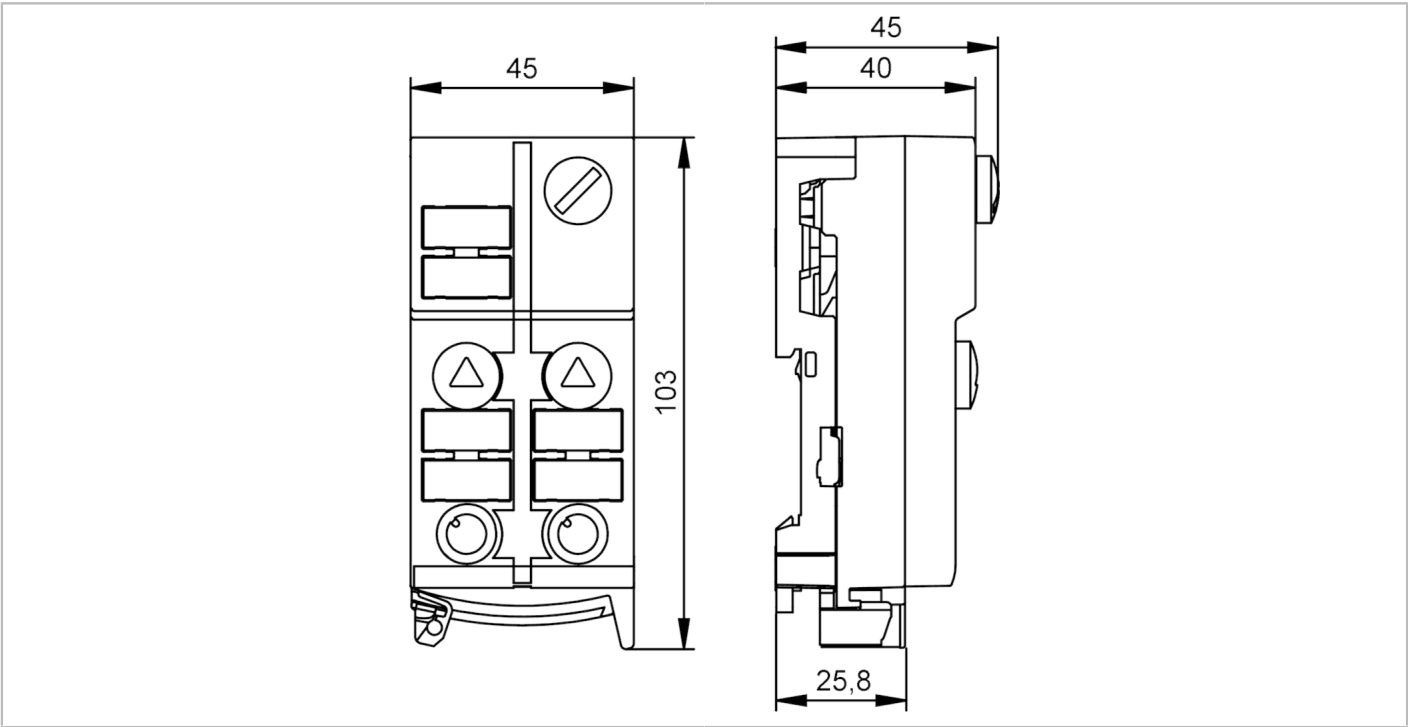




AS-Interface ClassicLine module with quick mounting technology

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	housing for DIN rail mounting, Only for operation with AS-i masters with the profile M4	
Application	field installation	
Electrical data		
Operating voltage	[V]	26.5...31.6 DC
Max. current consumption from AS-i	[mA]	250
Reverse polarity protection		yes
Max. current load total	[A]	0.2
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs	Number of digital inputs: 2; Number of analog inputs: 1; Number of analog outputs: 1	
Inputs		
Number of digital inputs		2
Input circuit of digital inputs		PNP
Sensor supply of the inputs		AS-i
Voltage supply	[V]	18...30; (DC)
Number of analog inputs		1; (connection of 2-wire, 3-wire and 4-wire sensors)
Analog input (current)	[mA]	4...20
Max. voltage drop across load for nominal voltage	[V]	10



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Analog inputs protected against short circuits	yes	
Resolution of analog input	12 bit	
Outputs		
Number of analog outputs	1; (connection of 2-wire, 3-wire and 4-wire actuators)	
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	
Storage temperature [°C]	-25...70	
Max. relative air humidity [%]	90; (non condensing)	
Max. height above sea level [m]	2000	
Protection	IP 67	
Tests / approvals		
EMC	EN 50295	
	IEC 61000-6-2	
MTTF [years]	137	
UL approval	voltage supply	Class 2
AS-i classification		
AS-i version	3.0	
Extended addressing mode	no	
AS-i master profile	M4	
AS-i profile	S-7.5.5	
AS-i I/O configuration [hex]	7	
AS-i ID code [hex]	5.5	
Mechanical data		
Weight [g]	162.6	
Housing	rectangular	
Type of mounting	quick mounting; AS-i flat cable connection; Mounting on DIN rail; (TH35 (EN 60715))	
Dimensions [mm]	103 x 45 x 44.7	
Material	PA; Piercing contacts: CuSn6 nickel-plated and tin-plated	
Displays / operating elements		
Display	analog signal	LED, yellow Channels AI1, AO1
	Switching status	LED, yellow Channels I1...I2
	Power	LED, green AS-i
	errors	LED, red
Electrical connection		
Module connection	Flat cable	



AS-Interface ClassicLine module with quick mounting technology

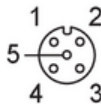
ClassicLine 1AI C 1AO C 2DI

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	The connections are electrically connected with the AS-i cable.
	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; coding: A; Contacts: 5; Maximum cable length: 30 m



	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

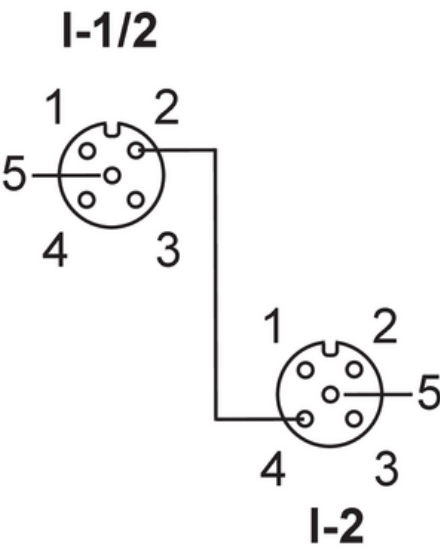


AS-Interface ClassicLine module with quick mounting technology

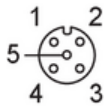
ClassicLine 1AI C 1AO C 2DI

Electrical connection - digital

Connection



Connector: M12; coding: A; Contacts: 5; Maximum cable length: 30 m



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