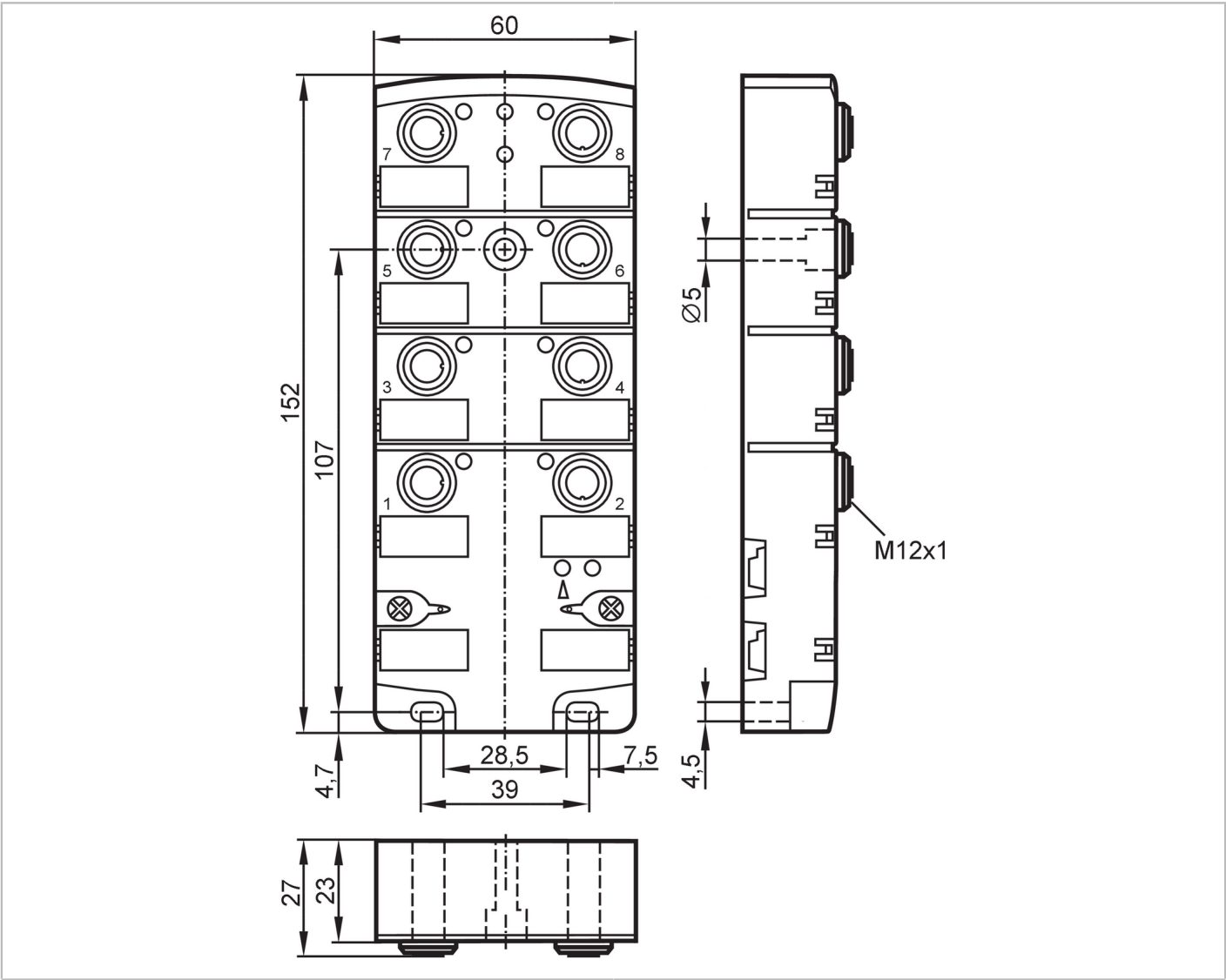




AS-Interface CompactLine module

CompactM12 4DI-Y 4DO



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

Max. current consumption
from AS-i

[mA]

250

Max. current load total

[A]

4

Additional voltage supply

[V]

10...30 DC; (AUX)

Max. current consumption
from additional supply

[mA]

4000; (AUX)

Integrated watchdog

yes

Inputs / outputs

Number of inputs and outputs

Number of digital inputs: 4; Number of digital outputs: 4



AS-Interface CompactLine module

CompactM12 4DI-Y 4DO

Inputs		
Number of digital inputs		4
Input circuit of digital inputs		PNP; (type 2 according to IEC 61131-2)
Sensor supply of the inputs		AS-i
Voltage supply [V]		20...30; (DC)
Max. total current rating of inputs [mA]		200
Input current limitation [mA]		15
Input current High [mA]		6...10
Input current low [mA]		0...2
Switching level high [V]		> 11
Digital inputs protected against short circuits		yes
Outputs		
Number of digital outputs		4
Circuit		PNP
Voltage range DC [V]		10...30; (AUX)
Max. current load per output [mA]		2000; (utilization category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))
Max. current load outputs total [A]		4
Short-circuit proof		yes
Electrically separated		yes
Actuator supply outputs		AUX
Operating conditions		
Ambient temperature [°C]		-25...80
Storage temperature [°C]		-25...80
Max. relative air humidity [%]		90; (non condensing)
Max. height above sea level [m]		2000
Protection		IP 67; (when flat cables are used E7400x / E7401x)
Tests / approvals		
EMC	EN 61000-6-2	
	EN 62026-2	
	EN 50581	
MTTF [years]		190
UL approval	voltage supply	Class 2
AS-i classification		
AS-i version		3.0
AS-i addressing		IR addressing possible
Extended addressing mode		yes
AS-i master profile		M4
AS-i profile		S-7.A.7
AS-i I/O configuration [hex]		7
AS-i ID code [hex]		A.7
AS-i certificate		97001



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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	O-2	O-3	O-4
	Pin	4	4	4	4

Mechanical data

Weight	[g]	379
Housing		rectangular
Type of mounting		AS-i flat cable connection; Backplane mounting
Dimensions	[mm]	152 x 60 x 27
Material		PA; Socket: brass nickel-plated; threaded inserts in the lower part: brass nickel-plated; O-ring: FKM; Piercing contacts: CuSn6 nickel-plated and tin-plated

Displays / operating elements

Display	Switching status	LED, yellow I1...I4, O1...O4
	Power	LED, green AS-i, AUX
	errors	LED, red

Electrical connection

Module connection	Flat cable
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Accessories

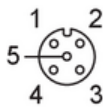
Items supplied	stainless steel sleeve for installation in case of high mechanical stress , E70402
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Remarks

Remarks	Do not connect any of the following points to an external potential:
	I-, I+, I1, I2, I3, I4
	The connections are electrically connected with the AS-i cable.
Pack quantity	1 pcs.

Electrical connection - Outputs

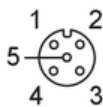
Connector: M12; coding: A; Contacts: 3



3	Outputs
4	External voltage AUX -
5	Switching output
1, 2	functional earth (FE)
	not used

Electrical connection - Inputs

Connector: M12; coding: A; Contacts: 5

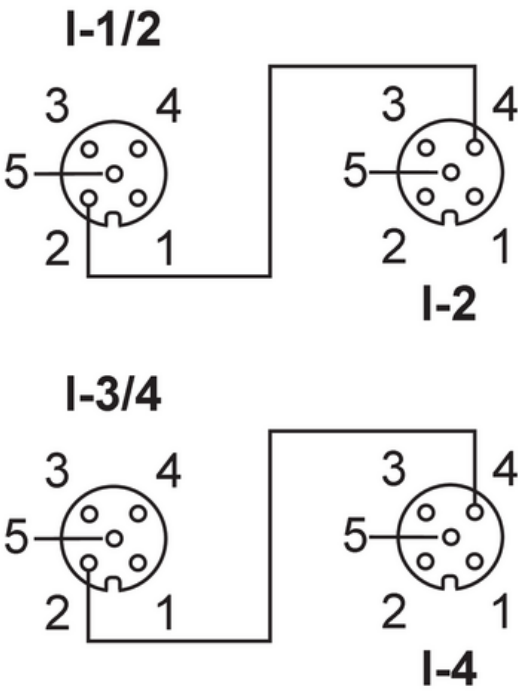




AS-Interface CompactLine module

CompactM12 4DI-Y 4DO

Connection



Inputs	
1	Sensor supply +
2	Data input
3	Sensor supply -
4	Data input
5	functional earth (FE)