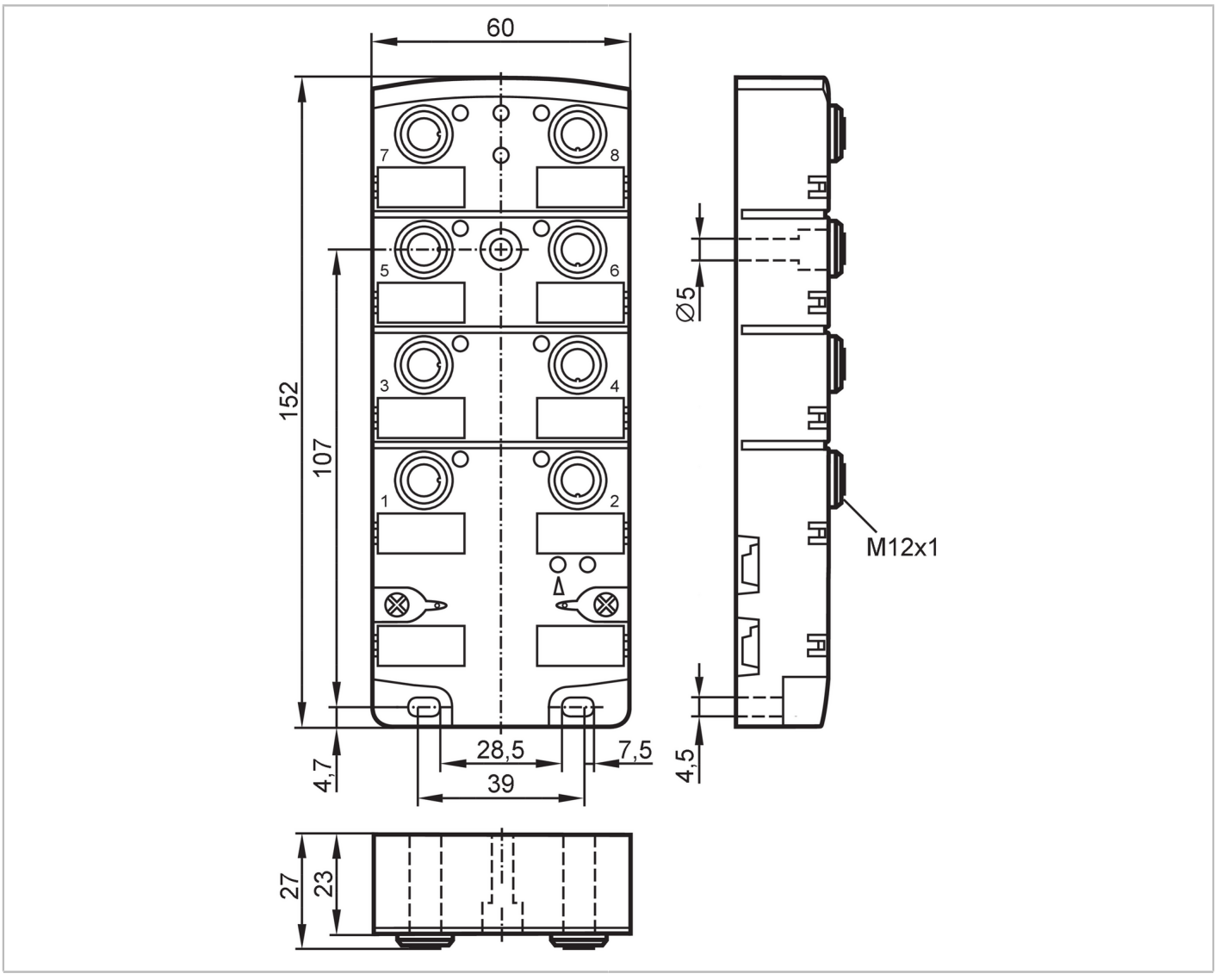
AC2452

AS-Interface CompactLine module

CompactModule 4DI 4DOT M12 V4A



Application		
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
Inputs		
Number of digital inputs		4

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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; (utilisation category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))
Total current rating of all outputs	[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]	193
UL approval		voltage supply: Class 2
AS-i classification		
AS-i addressing		IR addressing possible
Extended addressing mode		no
AS-i master profile		M2; M3; M4
AS-i profile		S-7.0.E
AS-i I/O configuration	[hex]	7
AS-i ID code	[hex]	0.E
AS-i certificate		46001

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Assignment of the 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	O-2	O-3	O-4
	pin	4	4	4	4

Mechanical data

Weight	[g]	374
Housing		rectangular
Type of mounting		AS-i flat cables directly connectable; backplane mounting
Dimensions	[mm]	152 x 60 x 27
Materials		PA; socket: stainless steel (316L/1.4404); threaded inserts in the lower part: stainless steel (316L/1.4404); screws: stainless steel (316Cu/1.4578); piercing contacts: CuSn6 nickel-plated and tin-plated; O-ring: EPDM

Displays / operating elements

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

Electrical connection

Module connection	Flat cables

Accessories

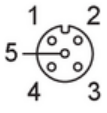
Accessories (optional)	Stainless steel sleeve, for installation in case of high mechanical stress , E70402

Remarks

Remarks	Inputs and outputs must be electrically isolated.
	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 - Inputs

Connector: M12; coding: A; Contacts: 5



	Inputs
1	Sensor supply L+
2+4	data input 1 internally bridged
3	Sensor supply L-
5	functional earth

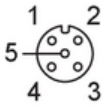
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CompactModule 4DI 4DOT M12 V4A

Electrical connection - Outputs

Connector: M12; coding: A; Contacts: 3



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