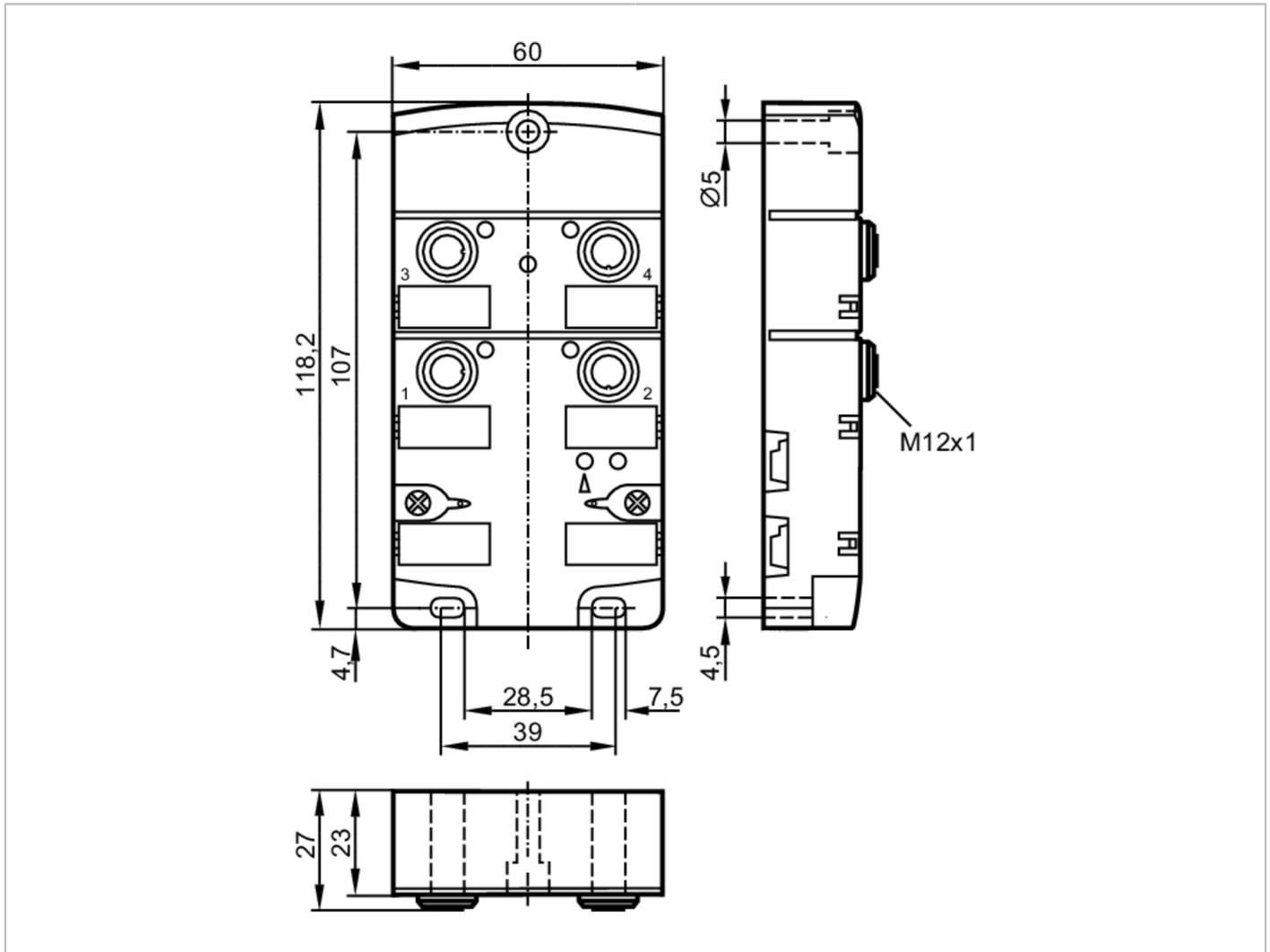


AC2451



AS-Interface CompactLine module

CompactModule 4DI M12 V4A



Application	
Application	field installation
Electrical data	
Operating voltage [V]	26.5...31.6 DC
Max. current consumption from AS-i [mA]	250
Inputs / outputs	
Number of inputs and outputs	Number of digital inputs: 4
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
Power supply [V]	20...30; (DC)
Max. total current rating of inputs [mA]	200
Input current limitation [mA]	15

AC2451



AS-Interface CompactLine module

CompactModule 4DI M12 V4A

Input current High	[mA]	6...10
Input current Low	[mA]	0...2
Switching level high	[V]	> 11
Digital inputs protected against short circuits		yes

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]	382
UL approval		power supply Class 2

AS-i classification

AS-i version		2.11; 3.0			
AS-i addressing		IR addressing possible			
Extended addressing mode		no			
AS-i master profile		M2; M3; M4			
AS-i profile		S-0.0.E			
AS-i I/O configuration	[hex]	0			
AS-i ID code	[hex]	0.E			
AS-i certificate		40501			
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

Mechanical data

Weight	[g]	292
Housing		rectangular
Type of mounting		AS-i flat cables directly connectable
Dimensions	[mm]	118.2 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
	operation	LED, green AS-i
	errors	LED, red

Electrical connection

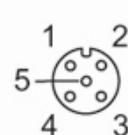
Module connection	Flat cables
-------------------	-------------

AC2451



AS-Interface CompactLine module

CompactModule 4DI M12 V4A

Accessories	
Accessories (optional)	Stainless steel sleeve, for installation in case of high mechanical stress , E70402
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	
Connector: M12; coding: A	
 A diagram of an M12 connector with five pins. Pin 1 is at the top, pin 2 is at the top-right, pin 3 is at the bottom-right, pin 4 is at the bottom, and pin 5 is at the left. The diagram shows the internal wiring connections between the pins.	
1	Inputs
2+4	Sensor supply L+
3	data input 1 internally bridged
5	Sensor supply L-
	functional earth