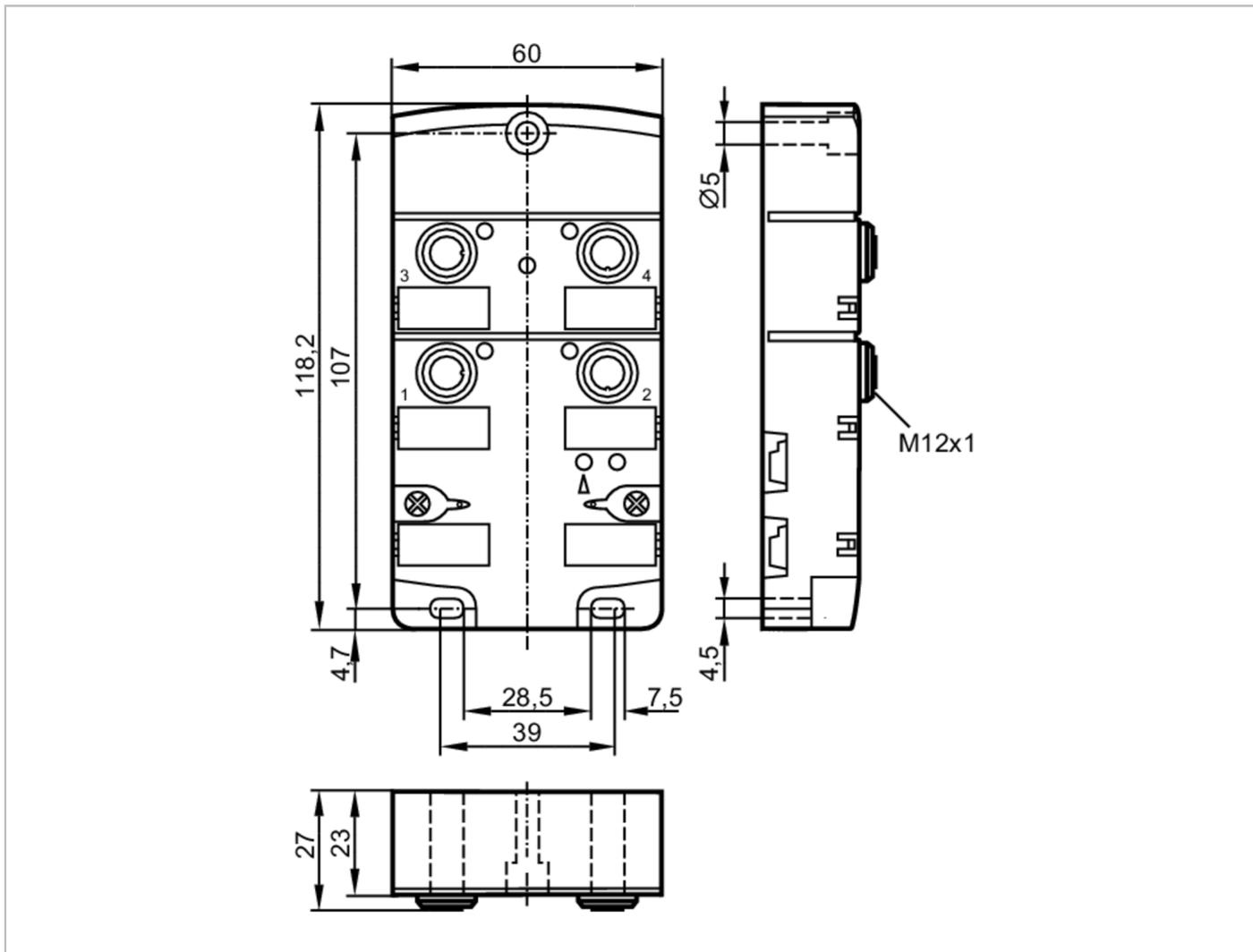# AC2456

AS-Interface CompactLine module

CompactM12 4 DI 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

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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]	383	
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		yes			
AS-i master profile		M2; M3; M4			
AS-i profile		S-0.A.E			
AS-i I/O configuration	[hex]	0			
AS-i ID code	[hex]	A.E			
AS-i certificate		126501			
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	4	4	4	4

Mechanical data

Weight	[g]	285.5
Housing		rectangular
Type of mounting		AS-i flat cables directly connectable
Dimensions	[mm]	118.2 x 60 x 27
Materials		PA 6.6; socket: stainless steel (316L/1.4404); threaded inserts in the lower part: stainless steel (316L/1.4404); O-ring: EPDM; piercing contacts: CuSn6 nickel-plated and tin-plated; screws stainless steel (316Cu/1.4578)

Displays / operating elements

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

Electrical connection
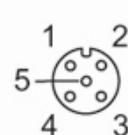
Module connection	Flat cables

AC2456

AS-Interface CompactLine module

CompactM12 4 DI 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

	Inputs
1	Sensor supply +
2	not used
3	Sensor supply -
4	data input
5	functional earth (FE)