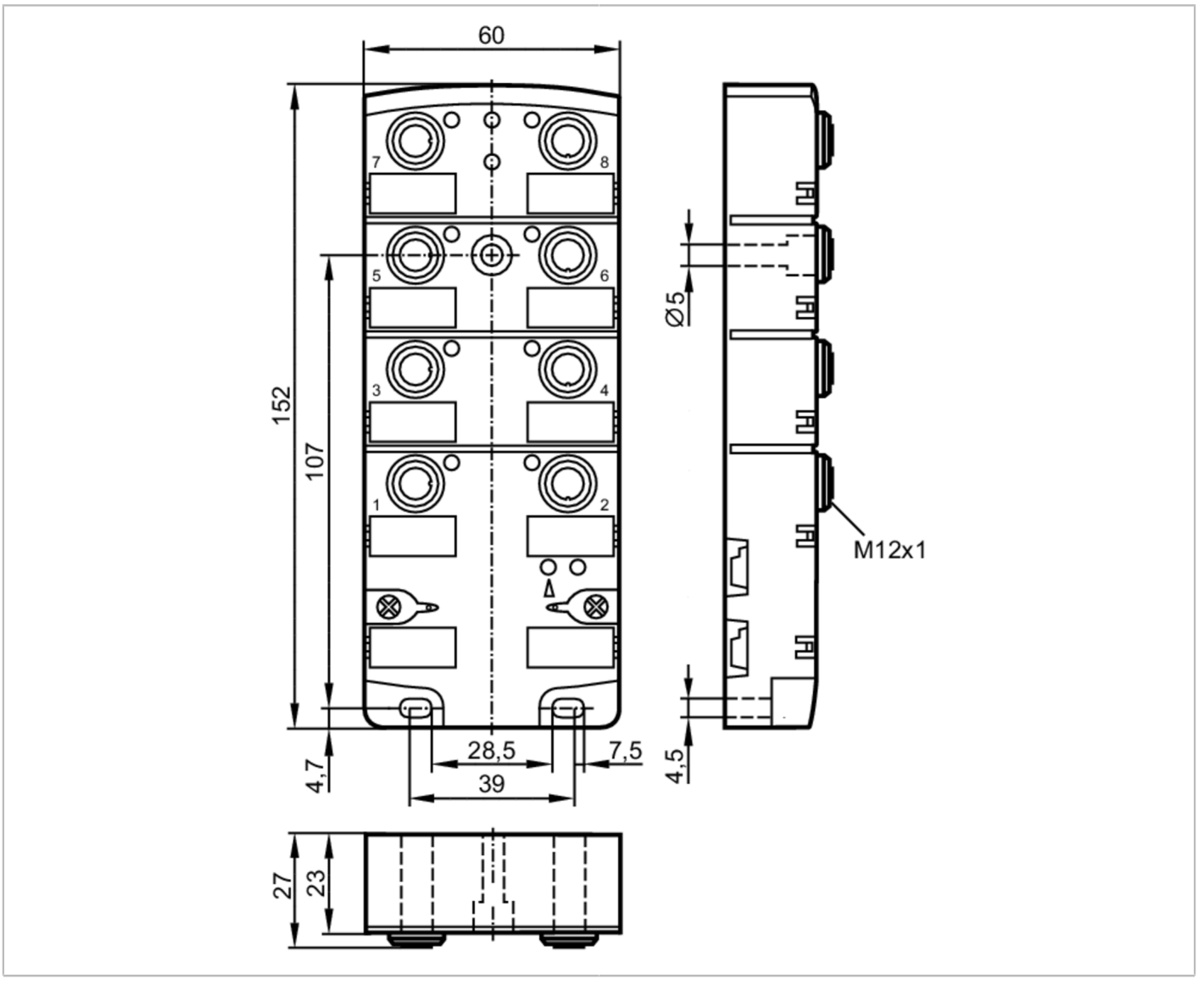
AC2455

AS-Interface CompactLine module

CompactM12 4 DI 4 DO V4A



Application		
Application		only for operation with AS-i masters with the profile M4
Electrical data		
Operating voltage	[V]	26.5...31.6 DC; ("supply class 2" to cULus)
Max. current consumption from AS-i	[mA]	250
Max. current load total	[A]	4
Additional voltage supply	[V]	10...30 DC; (AUX)
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 4; Number of digital outputs: 4

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Inputs						
Number of digital inputs		4; (bidirectional)				
Input circuit of digital inputs		PNP				
Sensor supply of the inputs		AS-i				
Voltage supply	[V]	20...30				
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				
Min. switching level high signal	[V]	11				
Digital inputs protected against short circuits		yes				
Outputs						
Number of digital outputs		4				
Circuit		PNP				
Voltage range DC	[V]	10...30; (to PELV)				
Max. current load per output	[mA]	2000; (utilisation category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))				
Short-circuit proof		yes				
Electrically separated		yes				
Operating conditions						
Ambient temperature	[°C]	-25...80				
Protection		IP 67; (when flat cables are used E7400x / E7401x)				
Tests / approvals						
EMC		EN 50295				
AS-i classification						
AS-i version		3.0				
AS-i addressing		IR addressing possible				
Extended addressing mode possible		yes				
AS-i profile		S-7.A.7				
AS-i I/O configuration	[hex]	7				
AS-i ID code	[hex]	A.7				
AS-i certificate		126601				
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
		Output	1	2	3	4
		socket	O-1	O-2	O-3	O-4
		pin	4	4	4	4

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Mechanical data		
Weight [g]	370	
Type of mounting	AS-i flat cables directly connectable	
Materials	PA 6.6; socket: stainless steel (1.4404 / 316L); threaded inserts in the lower part: stainless steel (1.4404 / 316L); O-ring: EPDM; piercing contacts: CuSn6 nickel-plated and tin-plated; screws stainless steel (1.4578 / 316Cu)	

Displays / operating elements		
Display	operation	LED, green
	errors	LED, red
	function	LED, yellow

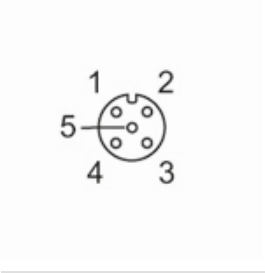
Accessories	
Accessories (supplied)	stainless steel sleeve for installation in case of high mechanical stress , E70402

Remarks	
Pack quantity	1 pcs.

Electrical connection - Inputs

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

Connector: M12



Electrical connection - Outputs

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

Connector: M12

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