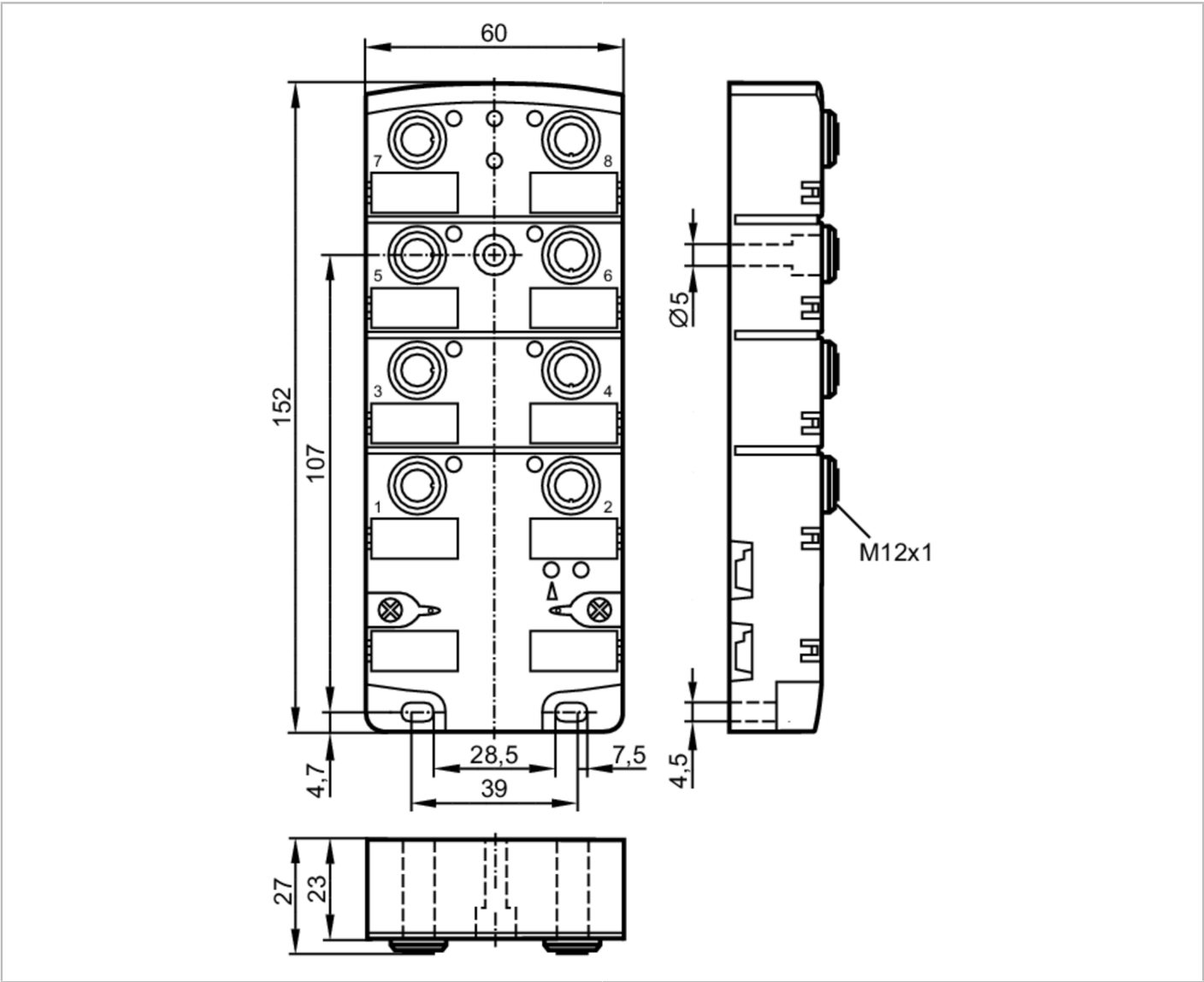




AS-Interface CompactLine module

CompactLine M12 4DI 4DO



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



AS-Interface CompactLine module

CompactLine M12 4DI 4DO

Inputs		
Number of digital inputs	4; (bidirectional)	
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	
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))	
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]	193	
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-7.0.E	
AS-i I/O configuration [hex]	7	
AS-i ID code [hex]	0.E	
AS-i certificate	46001	



AS-Interface CompactLine module

CompactLine M12 4DI 4DO

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]	384.5
Type of mounting	AS-i flat cables directly connectable	
Materials	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
	operation	LED, green AS-i, AUX
	errors	LED, red

Electrical connection

Module connection	Flat cables
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Accessories

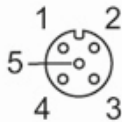
Items supplied	stainless steel sleeve for installation in case of high mechanical stress , E70402
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Remarks

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.
	For loads > 20 W (max. 2 A) an external protective circuit (e.g. a diode) is required.
Pack quantity	1 pcs.

Electrical connection - Inputs

Connector: M12; coding: A



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

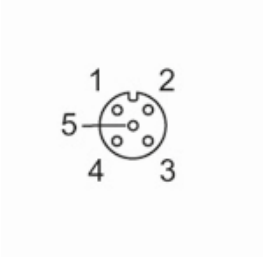


AS-Interface CompactLine module

CompactLine M12 4DI 4DO

Electrical connection - Outputs

Connector: M12; coding: A



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