



AS-Interface CompactLine module

CompactM12 4 DI-Y 4 DO V4A



Application		
Design		only for operation with AS-i masters with the profile M4
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



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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]	190	
UL approval	power supply	Class 2
AS-i classification		
AS-i version	3.0	
AS-i addressing	IR addressing possible	
Extended addressing mode	yes	
AS-i master profile	M4	
AS-i profile	S-7.A.7	
AS-i I/O configuration [hex]	7	
AS-i ID code [hex]	A.7	
AS-i certificate	126801	



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Assignment of the data bits	data bit	D0	D1	D2	D3
	input	1	2	3	4
	socket	I-1/2	I-1/2 / I-2	I-3/4	I-3/4 / I-4
	pin	4	2 4	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]	370.5
Type of mounting	AS-i flat cables directly connectable	
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, O1...O4
	operation	LED, green AS-i, AUX
	errors	LED, red

Electrical connection

Module connection	Flat cables
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Accessories

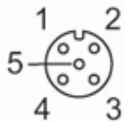
Items supplied	stainless steel sleeve for installation in case of high mechanical stress , E70402
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Remarks

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.	
Pack quantity	1 pcs.	

Electrical connection - Inputs

Connector: 4 x M12; coding: A

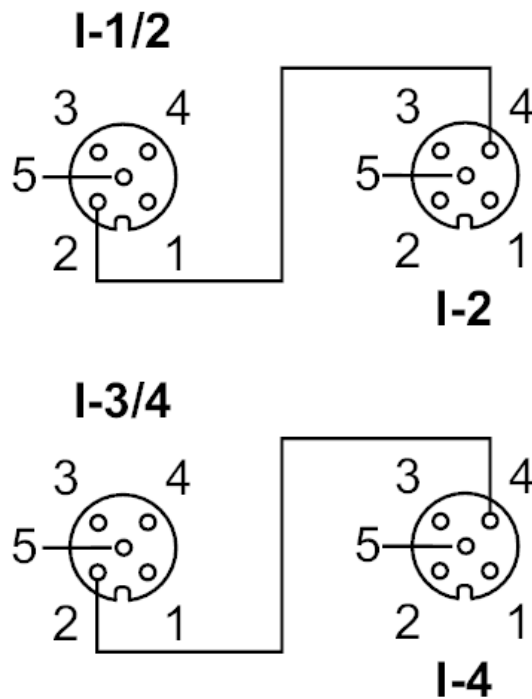




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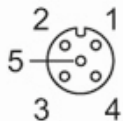
Connection



Inputs	
1	Sensor supply +
2	data input
3	Sensor supply -
4	data input
5	functional earth (FE)

Electrical connection - Outputs

Connector: 4 x M12; coding: A



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