



0910 ASL 146

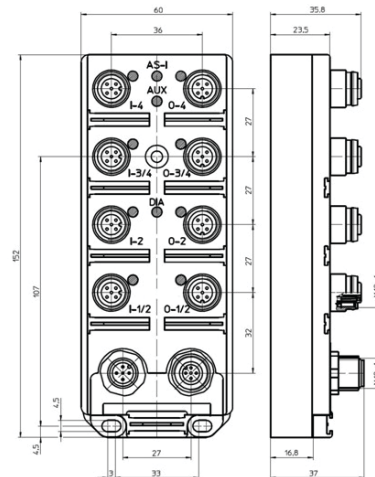


AS-Interface Module with 4-Digital Inputs and 4-Digital Outputs

4 IN / 4 OUT

AS-Interface flat cable module with 4 digital inputs for 2-wire- or 3-wire sensors and 4 digital outputs to connect standard actuators, combined FIXCON/M12 socket.

- Version 3.0 -



Bit Assignment

Bit	-	-	-	-	3	2	1	0
M12 Input								
Byte 0	-	-	-	-	I-4	I-3	I-2	I-1
M12 Output								
Byte 0	-	-	-	-	O-4	O-3	O-2	O-1

Diagnostic Indication

LED	Indication	Condition
O-1...4	yellow	channel status
U-AS-i	green	AS-Interface power supply active
AUX	green	actuator supply active
DIA	red	communication error
	red flashing	periphery error (sensor/actuator short circuit)

Pin Assignments

Input 1 M12	Input 2 M12	Input 3 M12	Input 4 M12
<ul style="list-style-type: none"> 1 = +24 V 2 = IN 2 3 = GND (0 V) 4 = IN 1 5 = earth 	<ul style="list-style-type: none"> 1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 2 5 = earth 	<ul style="list-style-type: none"> 1 = +24 V 2 = IN 4 3 = GND (0 V) 4 = IN 3 5 = earth 	<ul style="list-style-type: none"> 1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 4 5 = earth
Output 1 M12	Output 2 M12	Output 3 M12	Output 4 M12
<ul style="list-style-type: none"> 1 = n.c. 2 = OUT 2 3 = GND (0 V) 4 = OUT 1 5 = earth 	<ul style="list-style-type: none"> 1 = n.c. 2 = n.c. 3 = GND (0 V) 4 = OUT 2 5 = earth 	<ul style="list-style-type: none"> 1 = n.c. 2 = OUT 4 3 = GND (0 V) 4 = OUT 3 5 = earth 	<ul style="list-style-type: none"> 1 = n.c. 2 = n.c. 3 = GND (0 V) 4 = OUT 4 5 = earth
AS-i/Aux. PWR In (Plug M12)	AS-i/Aux. PWR Out (Socket M12)		
<ul style="list-style-type: none"> 1 = AS-i (+) 2 = Auxiliary power (-) 3 = AS-i (-) 4 = Auxiliary power (+) 5 = n.c. 	<ul style="list-style-type: none"> 1 = AS-i (+) 2 = Auxiliary power (-) 3 = AS-i (-) 4 = Auxiliary power (+) 5 = n.c. 		

The connection to earth for the inputs and outputs is implemented via the earthing contacts at the fastening holes.



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Technical Data

Environmental

Degree of protection	IP 67
Temperature range	-25°C / +80°C
Weight	300 g
Housing	PUR

Bus System

AS-Interface profile	AS-Interface V3.0
I/O configuration	S 7.A.7
ID code	7 hex
ID2 code (extended ID-code)	A hex
Support A/B addressing	7 hex
	yes

Electronics Power Supply

Rated voltage	AS-Interface
Voltage range	AS-Interface net
Power consumption	26.5–31.6 V DC
Reverse polarity protection	max. 250 mA
Indication	yes
	LED green

Input Power Supply

Voltage range (AS-Interface net)	17–30 V
Total current of all sensors	max. 250 mA
Short circuit-proof	yes

Inputs

	Type 2 acc. to IEC 61131-2
Rated input voltage 2	24 V DC
Signal state "1"	$U_s > 11 V / I_s > 6 mA$
Signal state "0"	$I_s < 2 mA$
Input current at 24 V	15 mA
Input circuit	p-switching
Number of digital channels	4
Channel status indicator	LED yellow per channel

Output Power Supply

	AUX
Rated voltage	24 V DC
Voltage range	10–30 V
Potential separation	present
Reverse polarity protection	yes/electronic
Indication	LED green

Outputs

	Type 2 A acc. to IEC 61131-2
Rated output current	2 A per channel
Short circuit-proof	yes
Max. output current	4 A per module
Overload-proof	yes
Number of digital channels	4
Channel type N.O.	p-switching
Channel status indicator	LED yellow per channel

Diagnostic

Indication	LED red
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Included in delivery / accessories

Dust covers M12	2 pieces
Attachable labels	10 pieces

Note

The input- and output channels are connected together. That allows a greater connection flexibility (see pin assignment). In case of connection of a two-channel sensor/actuator to input/output socket 1 or 3 a further sensor/actuator must not be plugged to input/output socket 2 or 4 respectively due to the Y wiring of the inputs/outputs.

Part Number

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The application of these products in harsh environments should always be checked before use. Specifications subject to alteration.