



0910 ASL 414

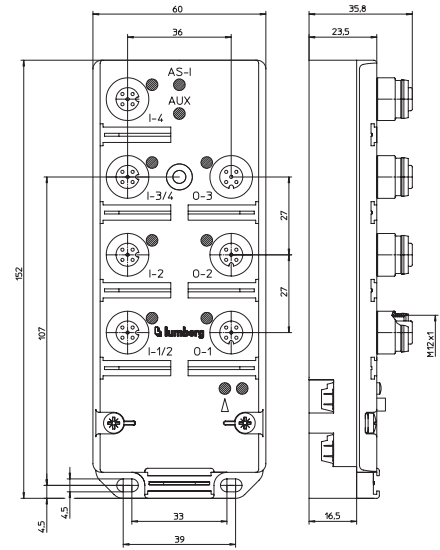


AS-Interface Module with 4-Digital Inputs and 3-Digital Outputs

4 IN / 3 OUT

AS-Interface module with 2 digital inputs to connect standard sensors and 2 digital outputs to connect standard actuators, combined M12 socket, M12 bus connection.

- Version 2.1 -



Bit Assignment

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

Diagnostic Indication

LED	Indication	Condition
O-1..4 / O-3..4	yellow	channel status
AS-i	green	AS-Interface power supply active
AUX	green	actuator supply active
	red	communication error
FID	red flashing	periphery error (actuator short circuit/sensor supply error)

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	
<ul style="list-style-type: none"> 1 = n.c. 2 = n.c. 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 = n.c. 3 = GND (0 V) 4 = OUT 3 5 = earth 	

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



Be Certain with Belden

AS-Interface Module with 4-Digital Inputs and 3-Digital Outputs

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Technical Data

Environmental

Degree of protection	IP 67
Operating temperature range	-25°C (-13°F) to +80°C (+176°F)
Weight	300 g
Housing material	PUR

Bus system

AS-Interface profile	AS-Interface Version 2.1
I/O configuration	S 7.A.E
ID code	7 hex
ID2 code (extended ID-code)	A hex
Support A/B addressing	E 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. 100 mA
Indication	yes
	LED green

Input power supply

Voltage range (AS-Interface net)	17–30 V
Total current of all sensors	max. 100 mA
Short circuit-proof	yes

Inputs

Rated input voltage	Type 2 acc. to IEC 61131-2
Signal state "1"	24 V DC
Signal state "0"	Us > 10 V / Is > 4.7 mA
Input current at 24 V	Is < 1.5 mA
Input circuit	15 mA
Number of digital channels	p-switching
Channel status indicator	4
	LED yellow per channel

Output power supply

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

Outputs

Rated output current	Type 2 A acc. to IEC 61131-2
Short circuit-proof	2 A per channel
Max. output current	yes
Overload-proof	4 A per module
Number of digital channels	yes
Channel type N.O.	3
Channel status indicator	p-switching
	LED yellow per channel

Diagnostic

Indication	LED red
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Included in delivery / Accessories

Dust covers M12	2 pieces
Attachable label	10 pieces

Note

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

Part Number

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