



0910 ASL 438

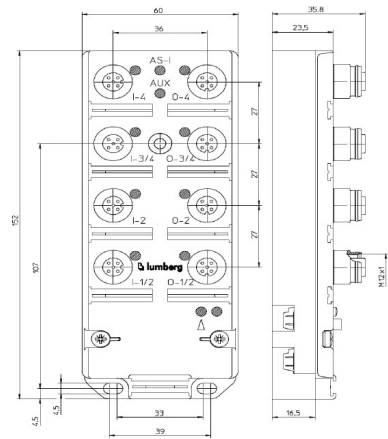


## AS-Interface Module with 4-Digital Inputs and 4-Digital Outputs

### 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, infrared interface for the addressing.

- Version 3.0 -



### Bit Assignment

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

### Diagnostic Indication

LED	Indication	Condition
I-1..4/O-1..4	yellow	channel status
U-AS-i	green	AS-Interface power supply active
AUX	green	actuator supply active
FID	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"> <li>1 = +24 V</li> <li>2 = IN 2</li> <li>3 = GND (0 V)</li> <li>4 = IN 1</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = IN 2</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = IN 4</li> <li>3 = GND (0 V)</li> <li>4 = IN 3</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = IN 4</li> <li>5 = earth</li> </ul>
Output 1 M12	Output 2 M12	Output 3 M12	Output 4 M12
<ul style="list-style-type: none"> <li>1 = n.c.</li> <li>2 = OUT 2</li> <li>3 = GND (0 V)</li> <li>4 = OUT 1</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = n.c.</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = OUT 2</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = n.c.</li> <li>2 = OUT 4</li> <li>3 = GND (0 V)</li> <li>4 = OUT 3</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = n.c.</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = OUT 4</li> <li>5 = earth</li> </ul>

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



Be Certain with Belden

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

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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	<b>AS-Interface V3.0</b>
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	<b>AS-Interface</b>
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

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

#### Output Power Supply

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

#### Outputs

Rated output current	<b>Type 2 A acc. to IEC 61131-2</b>
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.	4
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 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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\* = submitted

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