



0910 ASL 438

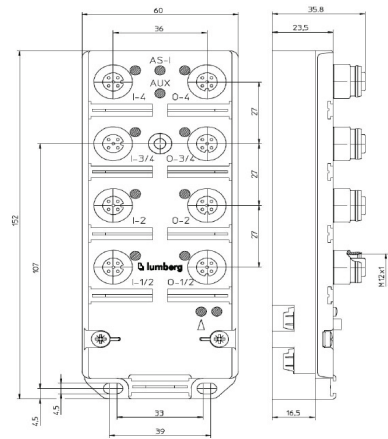


AS-Interface Module with 4-Digital Inputs and 4-Digital Outputs

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 |
|-------------------|---|---|---|---|-----|-------|-----|-------|
| M12 Input | | | | | | | | |
| Byte 0 | - | - | - | - | I-4 | I-3/4 | I-2 | I-1/2 |
| M12 Output | | | | | | | | |
| 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"> 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 |

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 | 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

| | |
|----------------------------|-----------------------------------|
| Rated input voltage 2 | Type 2 acc. to IEC 61131-2 |
| 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 | 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. | 4 |
| Channel status indicator | p-switching |
| | LED yellow per channel |

Diagnostic

| | |
|------------|---------|
| Indication | LED red |
|------------|---------|

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.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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