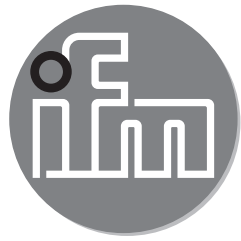


ifm electronic



Operating instructions

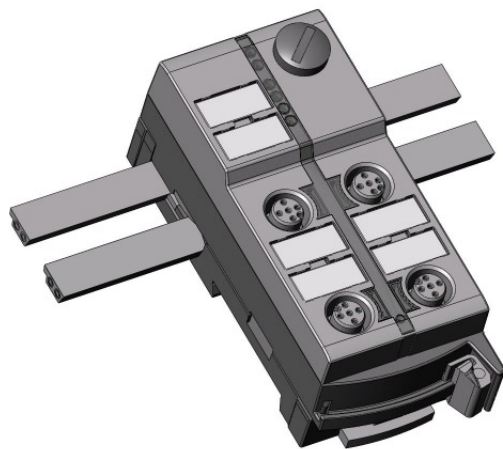
AS interface

ClassicLine module

AC5291

UK

7390791 / 00 06 / 2009



Contents

1 Safety instructions	3
2 Functions and features	3
3 Operating and display elements	4
4 Installation.....	5
5 Addressing.....	10
5.1 Addressing with the AC1144 addressing unit.....	10
6 Electrical connection.....	11
7 Operation.....	11
8 Technical data.....	11

1 Safety instructions

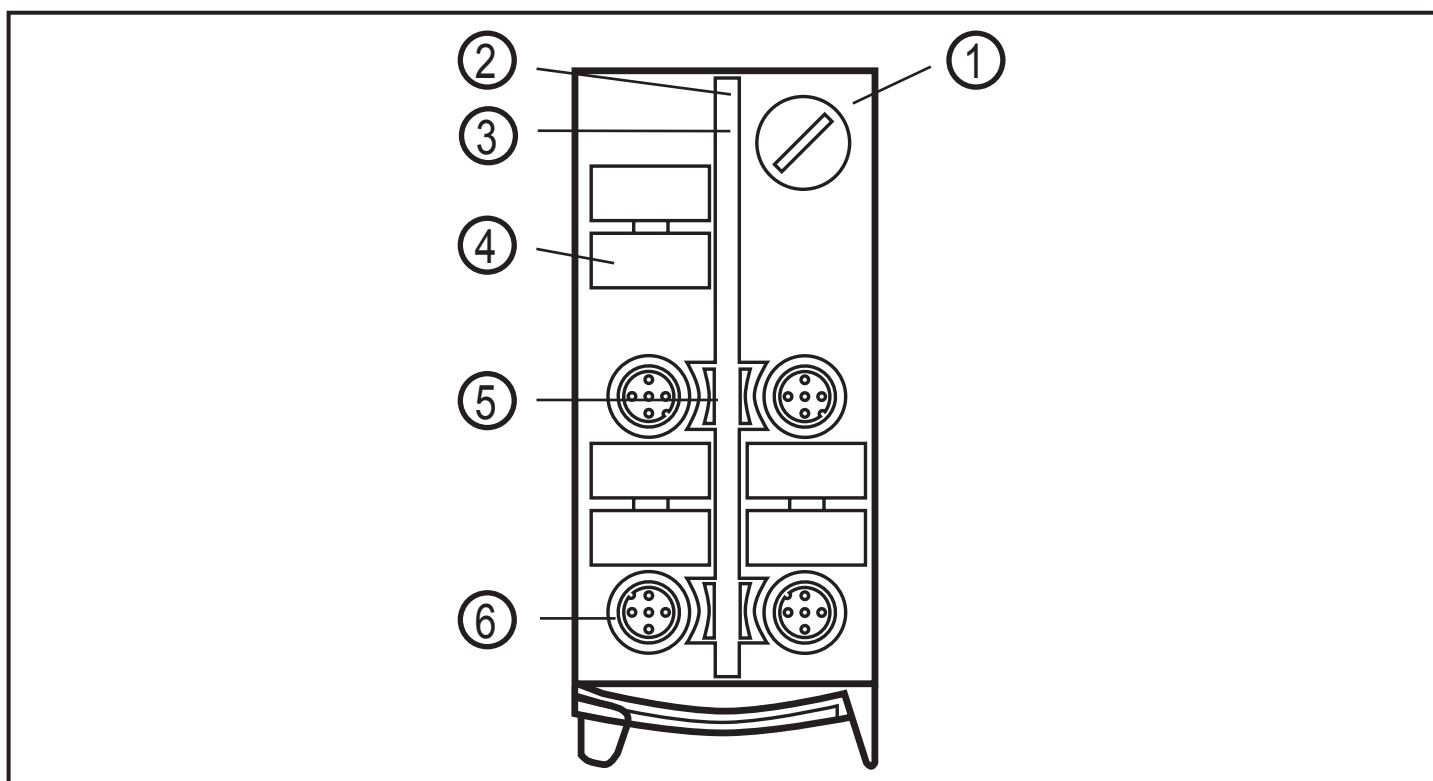
- Please read the product description prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- The unit conforms to the relevant regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application.
- That is why installation, electrical connection, set-up, operation and maintenance of the unit must only be carried out by qualified personnel authorised by the machine operator.

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2 Functions and features

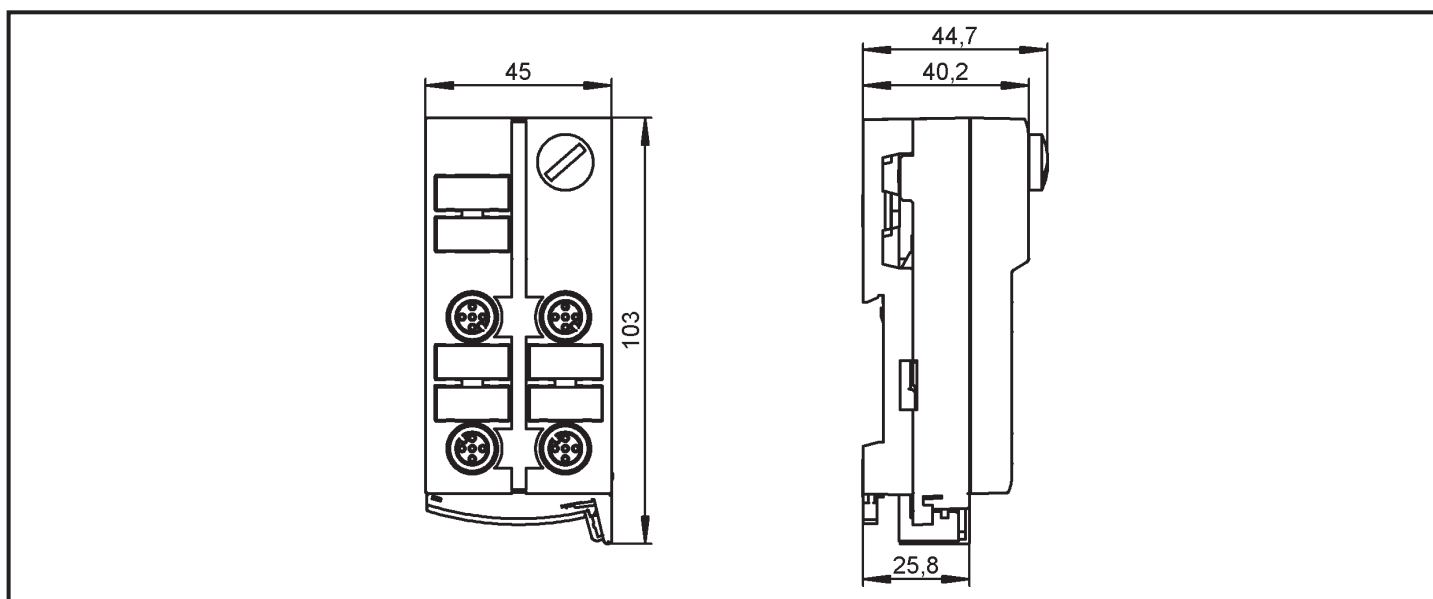
- maximum number of modules per master: 62
- AS-interface version 3.0, downward compatible
- AS-i voltage distribution possible
- max. current rating of the piercing contacts: 4 A

3 Operating and display elements

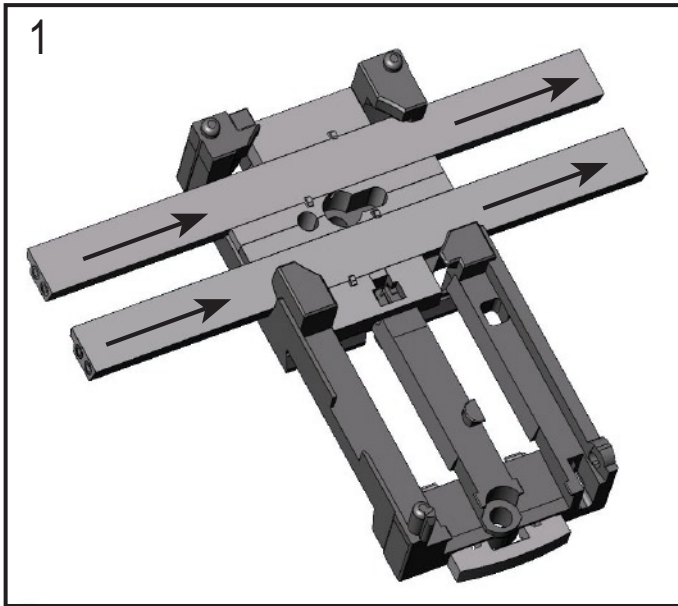


- 1: Addressing interface
- 2: LED PWR
- 3: LED FAULT
- 4: Labels
- 5: LED 1
- 6: 4 M12 sockets

Scale drawing

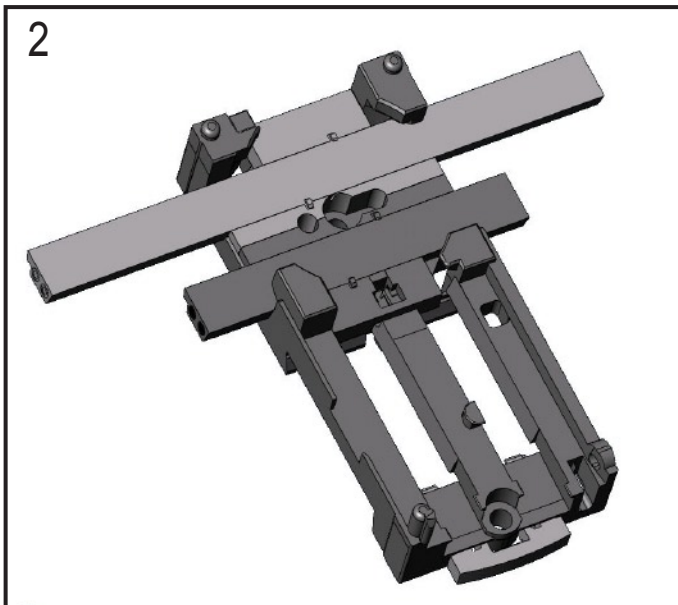


4 Installation

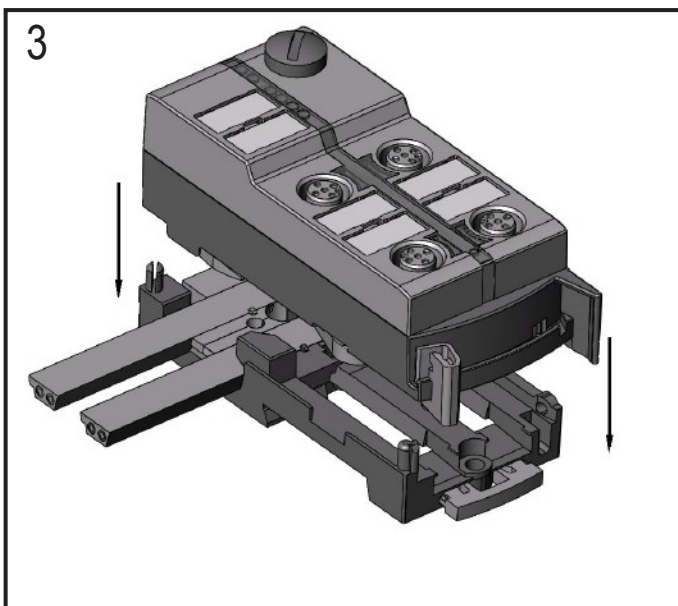


Alignment of the flat cable on delivery

Carefully place the yellow AS-i flat cable into the profile slot.



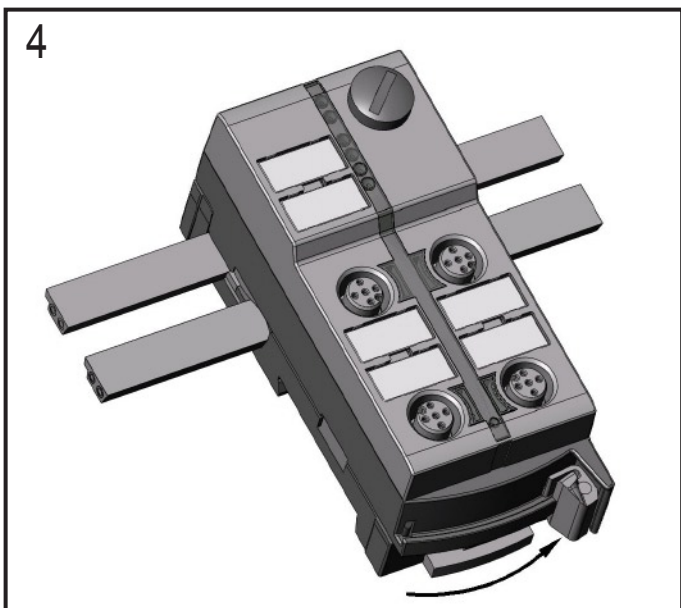
If the second cable duct is not used, it must be closed by the enclosed flat cable blank.



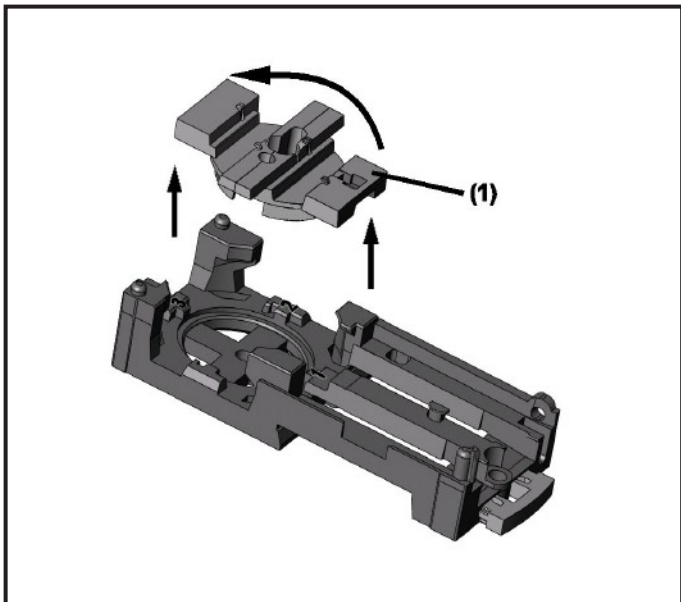
Mount the upper part.

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4

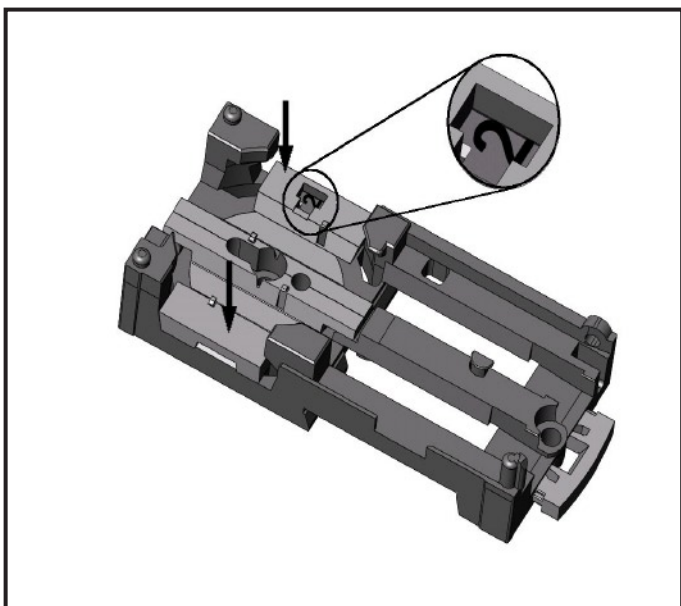


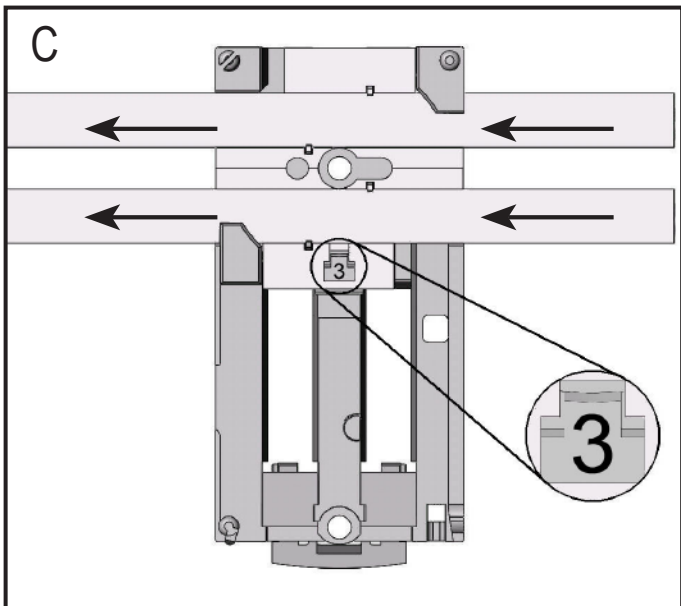
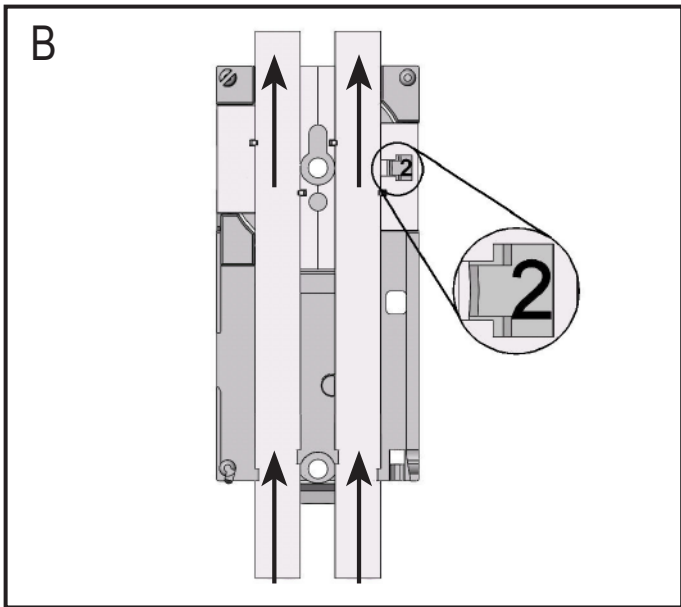
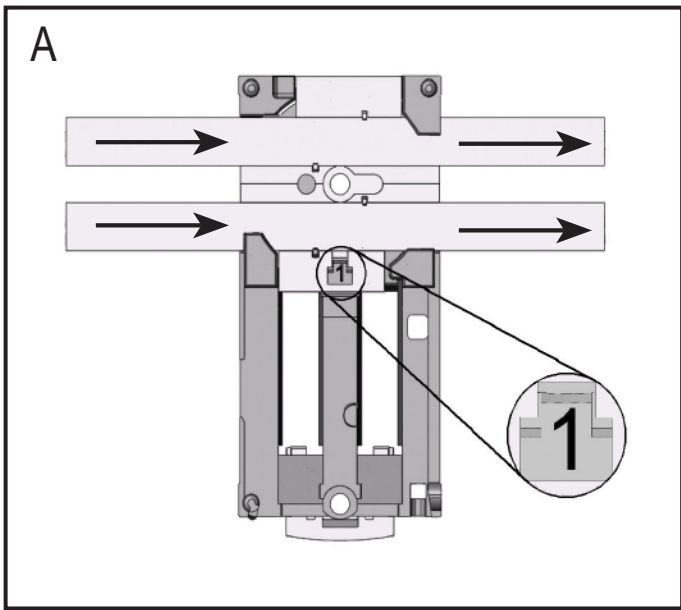
Lock the unit.



With the supplied lower part the flat cable can be aligned in three directions.

For the requested direction place the flat cable guide (1) accordingly.

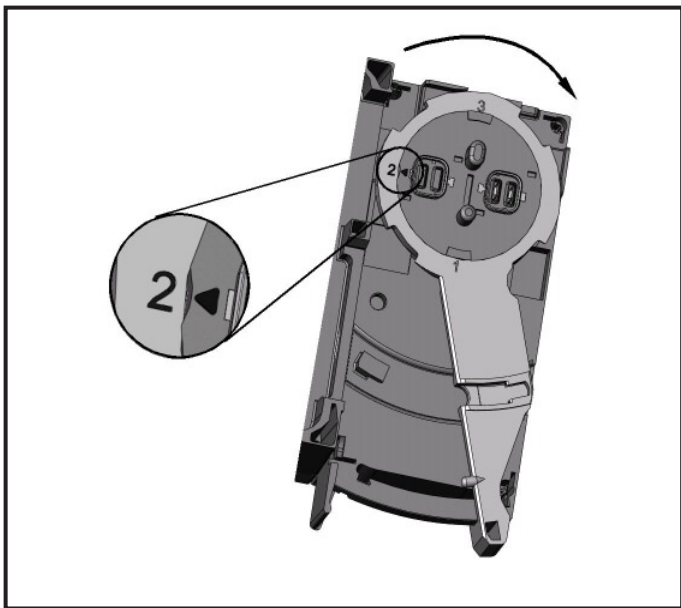




Settings at the lower part

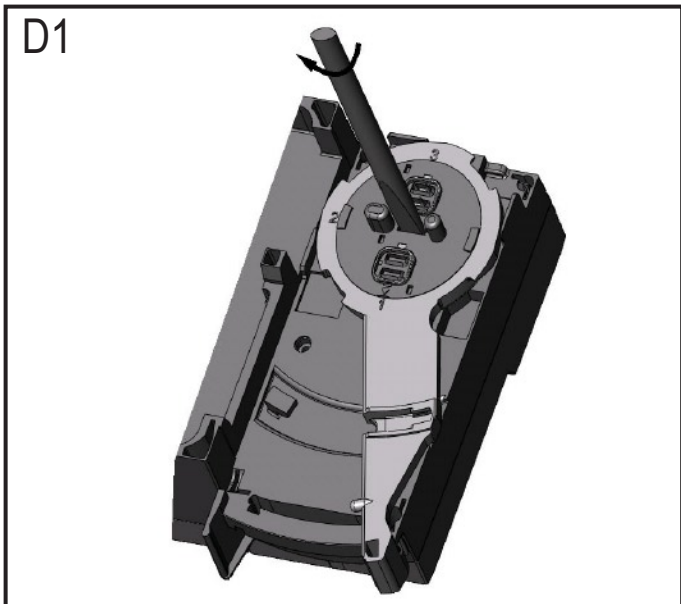
Select the position 1, 2 or 3 depending on the requested flat cable orientation (→).

A = factory setting

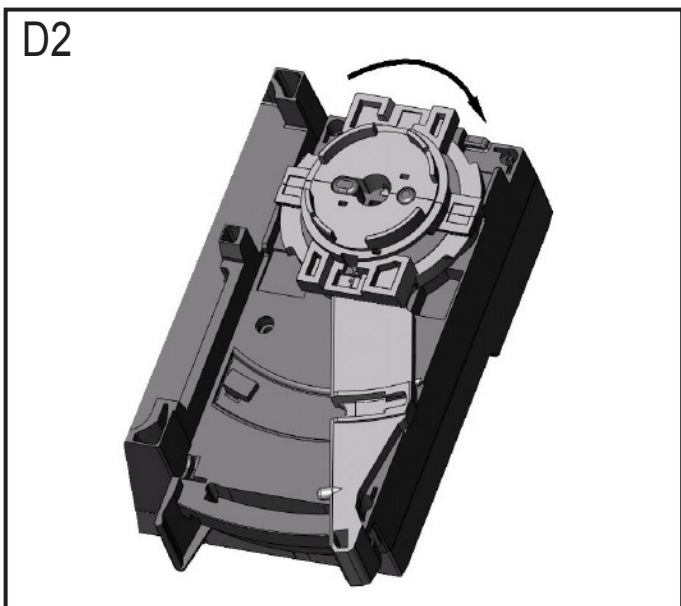


Settings at the upper part

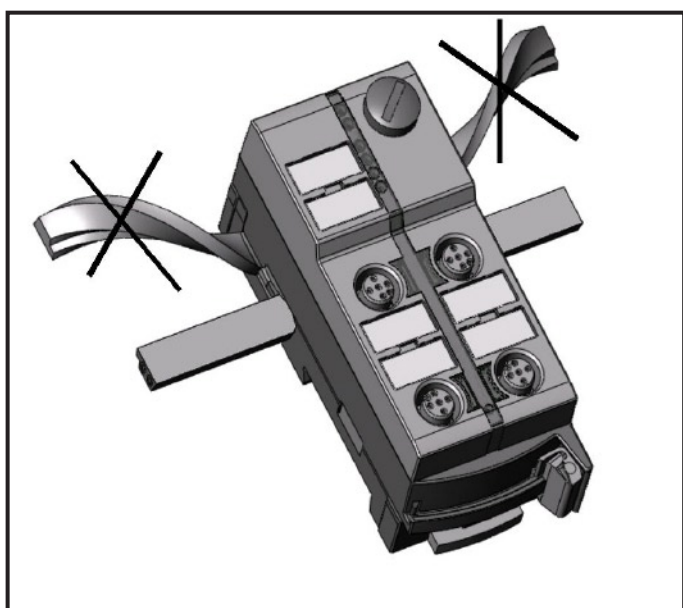
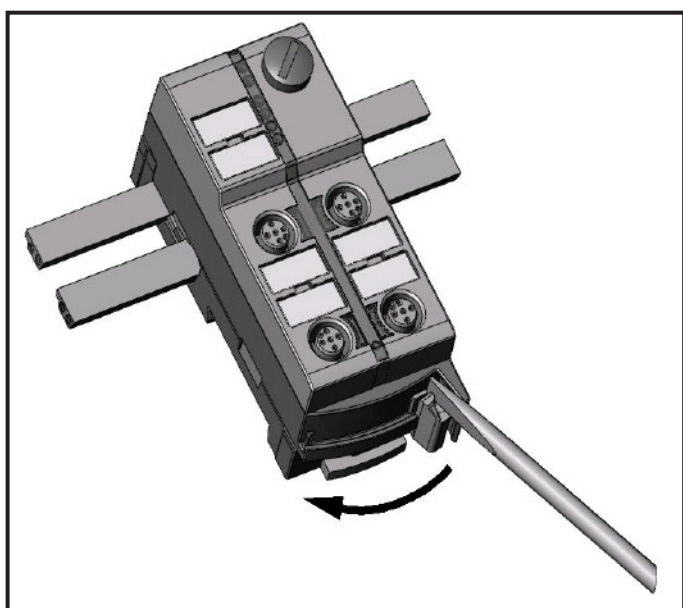
Then set the selected position at the upper part. To do so, turn the triangle to the corresponding number (fig. D1 and D2).



Use a tool, e.g. a screwdriver (figure D1) or the yellow flat cable guide (figure D2).



Open the unit



Open the unit using a tool as shown (e.g. screwdriver).

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Take care in laying the AS-i flat cable, the flat cable should be laid straight for about 15 cm.

5 Addressing

The address is set to 0 at the factory.

5.1 Addressing with the AC1144 addressing unit

When mounted and wired the module can be addressed with the addressing cable (E70213) via the integrated addressing interface.

If a slave with the extended addressing mode is used in combination with a master of the first generation (version 2.0), the parameter P3 must be 1 and the output bit D3 must be 0*. The output bit D3 and the parameter bit P3 must not be used.

* default setting

If a slave with the extended addressing mode is used in combination with a master of the first generation (version 2.0), an address between 1A and 31A must be assigned to this slave.

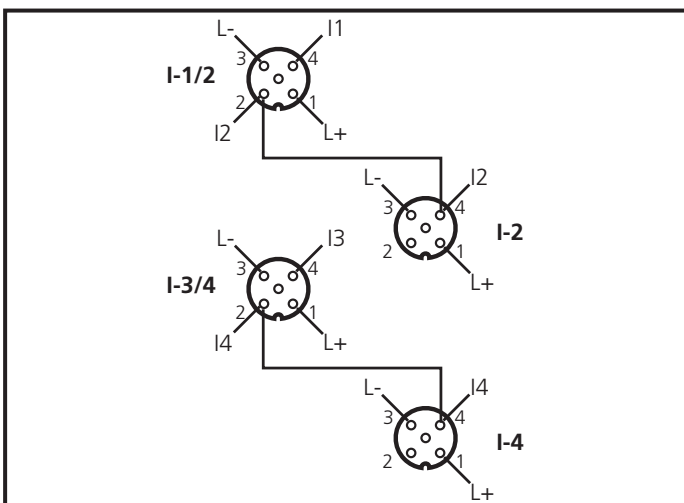
AC5291

4 inputs:

AS-i profile S-0.A.E / extended addressing mode: Yes

Data bit	D0	D1	D2	D3
Input	I1	I2	I3	I4
Socket	I-1/2	I-1/2 I-2	I-3/4	I-3/4 I-4

Y-circuit inputs



6 Electrical connection

Max. current rating of the piercing contacts: 4 A

Connect the plugs of the sensors to the M12 sockets. Cover the unused sockets with protective caps (E73004)*, the addressing socket with the supplied protective cap. Tightening torque 0.6...0.8 Nm.



If the second cable duct is not used, it must be closed using the supplied flat cable blank (E70399).

To guarantee protection rating IP 67 you also have to

- use the flat cable end seal (E70413)* if the module is at the end of the cable line.

* to be ordered separately

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7 Operation



Avoid build-up of dirt and dust on the upper and lower parts so that the locking mechanism is not affected.

- LED PWR green: AS-i voltage supply ok
- LED FAULT red lights: AS-i communication error, slave does not participate in the "normal" exchange of data, e.g. slave address 0
- LED FAULT red flashes: peripheral fault, e.g. sensor supply overloaded or shorted
- LED 1 yellow: inputs switched



Overload and short circuit of the input supply are signalled as peripheral fault to the AS-i master (version 2.1 or higher).

8 Technical data

Technical data and further information at

www.ifm.com --> Select your country --> Data sheet direct