Operating instructions **A5 interface** 

ClassicLine module
AC5290

UK

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# 1 Safety instructions

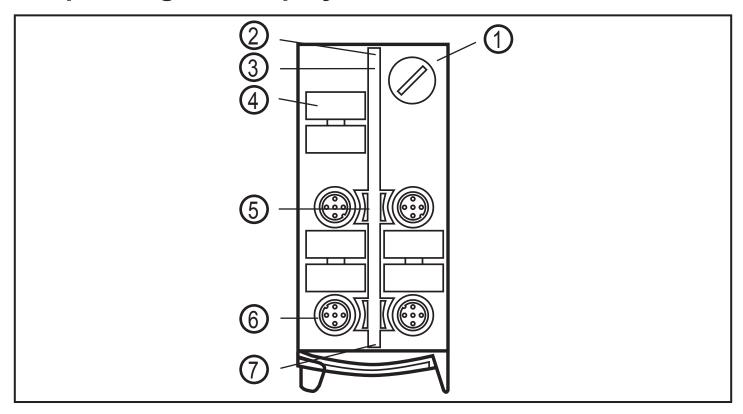
- Please read the product description prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- The unit conforms to the relevant regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects 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.

## 2 Functions and features

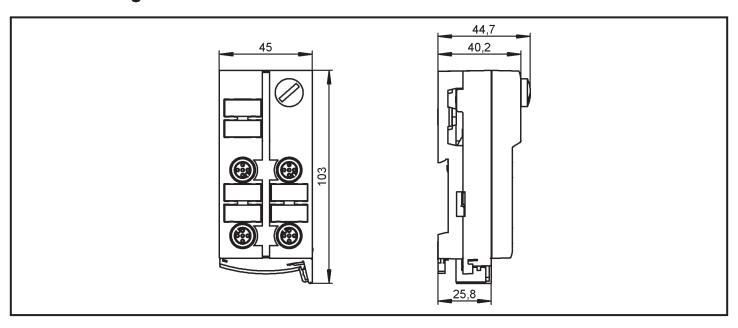
- maximum number of modules per master: 62
- AS-interface version 3.0, downward compatible
- inputs supplied externally via the black flat cable

# 3 Operating and display elements

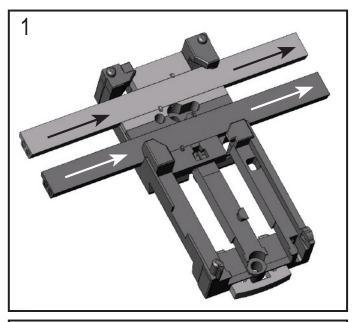


- 1: Addressing interface
- 2: LED PWR
- 3: LED FAULT
- 4: Labels
- 5: LED 1
- 6: 4 M12 sockets
- 7: LED AUX

# Scale drawing

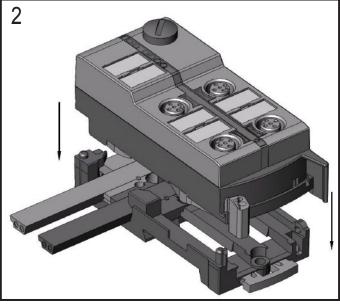


# 4 Installation

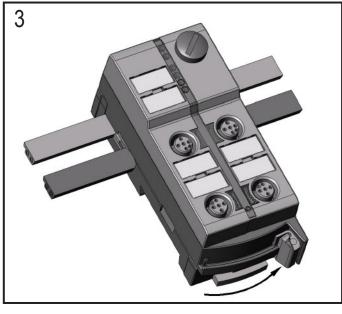


# Alignment of the flat cable on delivery

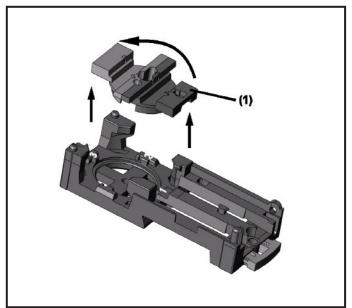
Carefully place the yellow and the black AS-i flat cable into the profile slot.

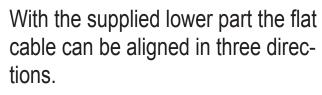


Mount the upper part.

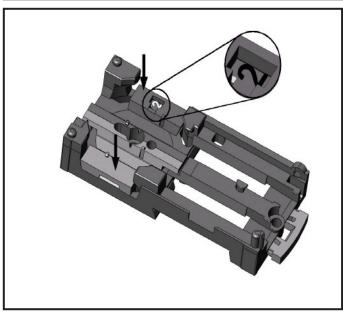


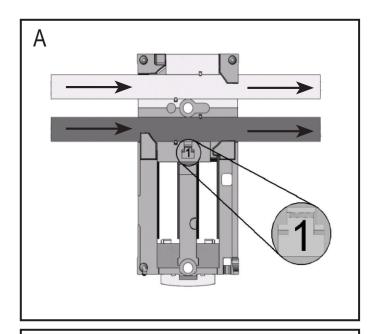
Lock the unit.

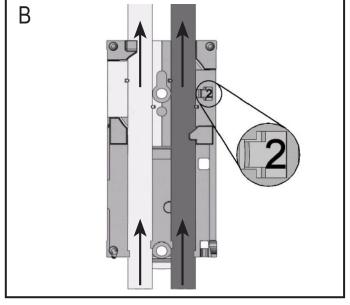


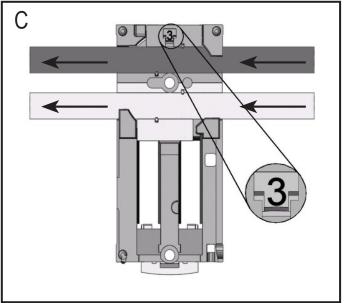


For the requested direction place the flat cable guide (1) accordingly.





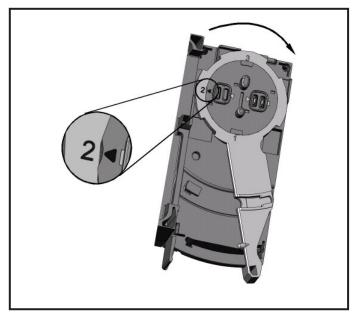




# Settings at the lower part

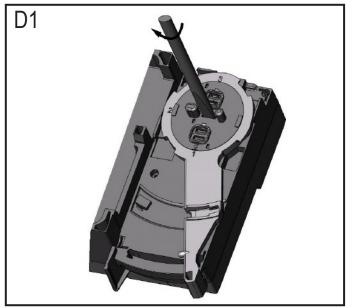
Select the position 1, 2 or 3 depending on the requested flat cable orientation  $(\rightarrow)$ .

A = factory setting

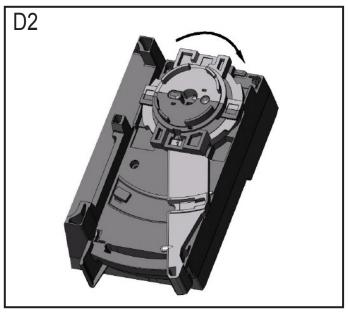


## Settings at the upper part

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



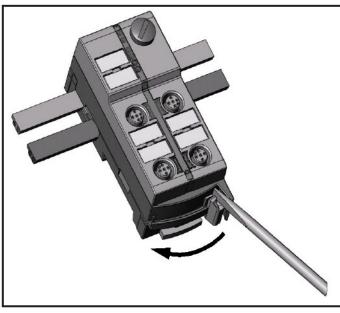
Use a tool, e.g. a screwdriver (figure D1) or the yellow / black flat cable guide (figure D2).

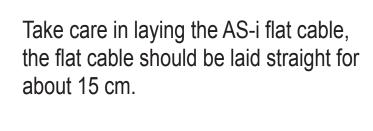


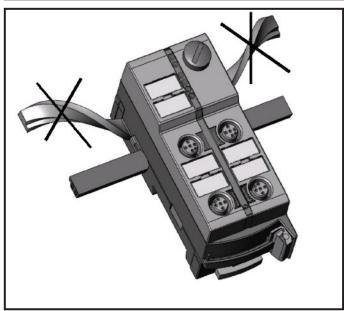
# Open the unit



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







# 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.

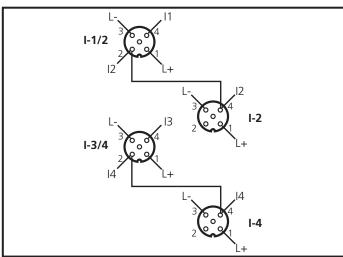
#### AC5290

4 inputs (supplied externally via the black flat cable)

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

Data bit	D0	D1		D2	D3	
Input	I1	12		13	14	
Socket	I-1/2	I-1/2	I-2	I-3/4	I-3/4	I-4

## Y-circuit inputs



Parameter bit	Designation	Description
P1	Peripheral fault	1 peripheral fault indication active 0 periphery fault indication not active

#### 6 Electrical connection

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 0.8 Nm.

The flat cable end seal (E70413)\* must be used if the module is at the end of the cable line.

\* to be ordered separately

# 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: input switched

LED AUX green: AUX voltage supply ok

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  $\rightarrow$  Select your country  $\rightarrow$  Data sheet direct: