

ifm electronic



Operating instructions  
AS-i CompactLineM12  
Splitter box

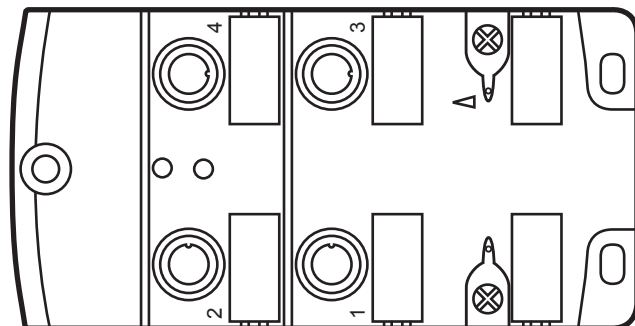
UK

**ecomat300<sup>®</sup>**

**AC2413**

**AC2453**

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# 1 Preliminary note

► Instruction

> Reaction, result



Important note

Non-compliance can result in malfunction or interference.



Information

Supplementary note.

## 2 Safety instructions

UK

- Please read the operating instructions prior to set-up of the device. 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.
- Installation, electrical connection, set-up, operation and maintenance of the unit must only be carried out by qualified personnel authorised by the machine operator.

## 3 Functions and features

- The passive CompactLine module serves as splitter box for the connection of intelligent sensors/actuators and need not be addressed.
- AC2453: Metal parts from stainless steel

## 4 Installation



▶ Disconnect the system from power before installation.



▶ For installation choose a flat mounting surface.

The entire bottom of the module must lie flat on the mounting surface.

- ▶ Screw the lower part onto the mounting surface using M4 screws and washers (1). Tightening torque 1.8 Nm.
- ▶ Carefully place the yellow AS-i flat cable into the profile slot.
- ▶ Carefully place the black AS-i flat cable for external voltage supply into the profile slot.
- ▶ Position the upper part and fix it using the supplied M3.5 screws (2). Tightening torque 1.2...1.4 Nm.
- ▶ Fix the module onto the mounting surface using M4 or M5 screws and washers (3). Tightening torque max. 1.8 Nm.  
Use stainless steel sleeve (E70402)\* for installation in case of high mechanical stress.
- ▶ Connect the plugs of the sensors (4) to the M12 sockets.  
Tightening torque max. 1 Nm.
- ▶ Cover the unused sockets with protective caps (E73004)\*.  
Tightening torque 0.6...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

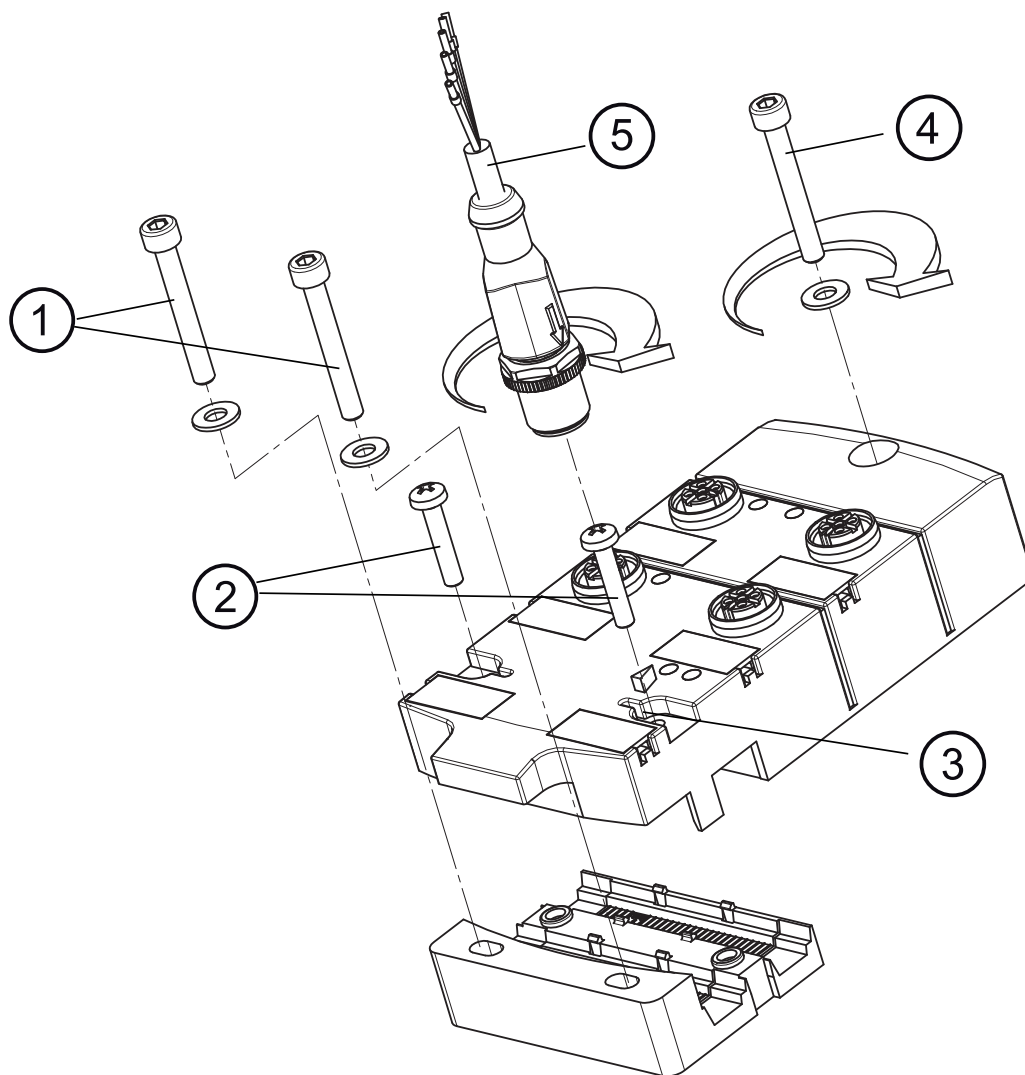
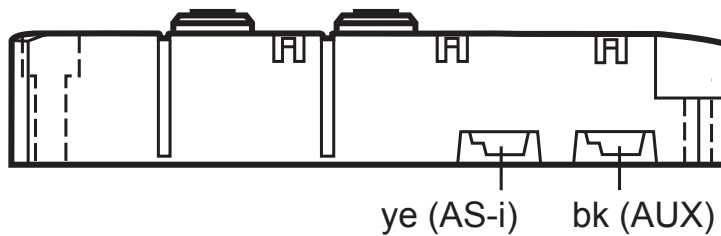


In case of interference coupling to the sensor cables or the black flat cable (24 V DC auxiliary supply) the use of the functional earth springs can improve the EMC.

Requirement:

an interference-free and low-resistance connection to the machine ground.

- ▶ If necessary, you can ground the module via the functional earth springs (5).



- 1: M4 screws and washers (not supplied with the device). Tightening torque 1.8 Nm.
- 2: M3.5 screws supplied. Tightening torque 1.2...1.4 Nm.
- 3: M4 / M5 screws and washers (not supplied with the device).  
Tightening torque max. 1.8 Nm.
- 4: M12 connector. Tightening torque max. 1 Nm.
- 5: Functional earth springs



Note the maximum tightening torque of the connection cable.

## 5 Electrical connection



The unit must be connected by a qualified electrician.

The national and international regulations for the installation of electrical equipment must be adhered to.



Intended for connection to class 2 (cULus class 2) circuits only.

► Disconnect power.

► Connect the unit.

## 6 Pin connection

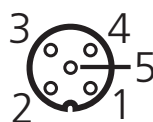
1: AS-i +

2: 0 V

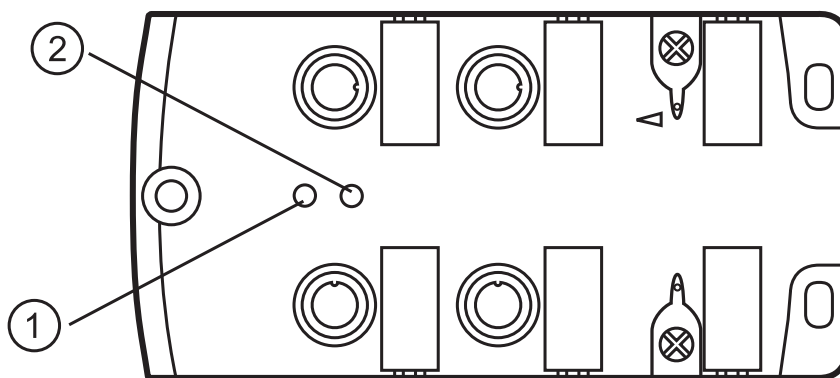
3: AS-i -

4: 24 V

5: functional earth (FE)



## 7 Operating and display elements



1: LED AS-i

2: LED AUX

LED AS-i green lights: AS-i voltage supply ok

LED AUX green lights: AUX voltage supply ok

## 8 Maintenance, repair and disposal

The operation of the unit is maintenance-free. Always exchange the upper part and lower part at the same time.

After use dispose of the unit in an environmentally friendly way in accordance with the applicable national regulations.

## 9 Technical data

Technical data and further information at

[www.ifm.com](http://www.ifm.com) → Select your country → Data sheet search

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## 10 Scale drawing

