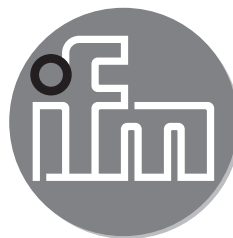


ifm electronic



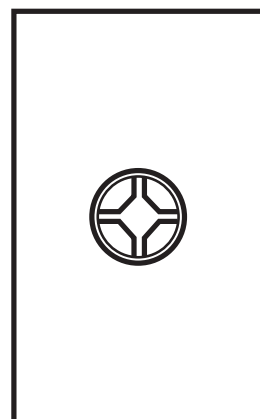
Installation instructions  
AS-i bus termination

**AS interface**

**E70580**

**UK**

7391014/00 06 / 2014



# 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

- The passive AS-i bus termination includes two different terminating resistors (Z1 and Z2) and is used to improve the signal quality for total cable lengths of  $\geq 100$  m.
- Three-level voltage monitoring and display for AS-Interface and AUX.
- Cable lengths of up to 200 m are possible when the AS-i bus termination is installed at the point furthest away from the AS-i power supply.
- Max. current consumption  $< 15$  mA.

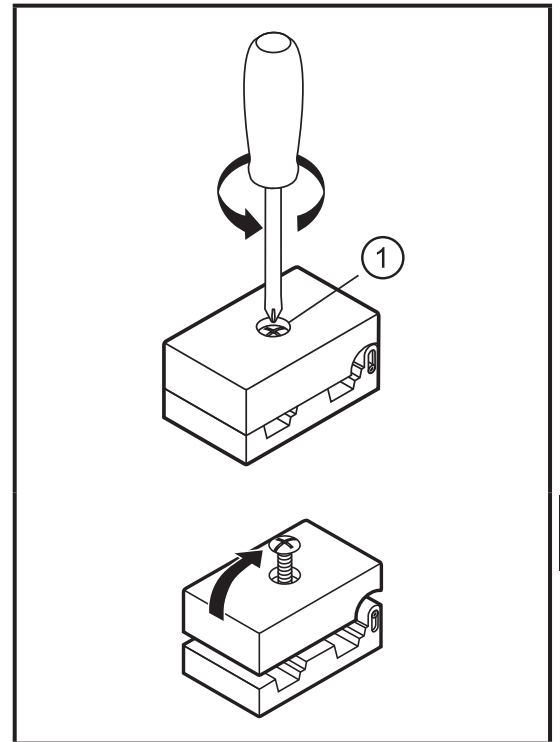
# 3 Display

- Green LED lights: AS-i voltage  $> 26.5$  V DC
- Yellow LED lights: AS-i voltage  $> 18$  V DC

# 4 Installation

- ▶ Disconnect power.

- ▶ Loosen screw 1 (included) and open the bus termination.



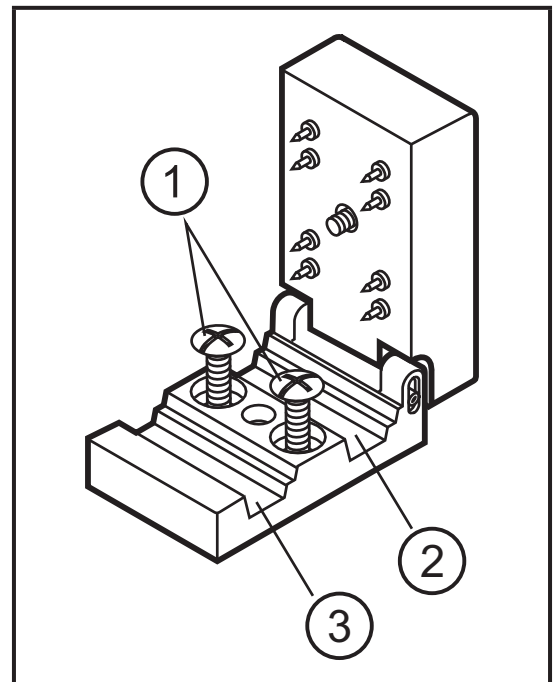
- ▶ Choose a flat mounting surface and fix the bus termination on it (mounting holes 1).

The mounting screws are not supplied.

- ▶ Preferably place the AS-i cable in the upper profile slot (2) (terminating resistor Z1).

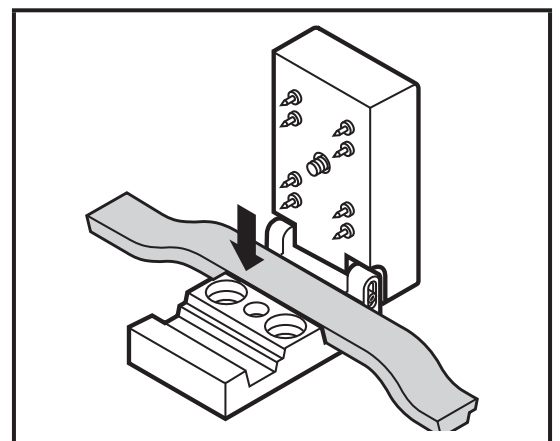
Should the required signal quality not be sufficient despite a cable length of up to 200 m, place the AS-i cable in the lower profile slot (3) (terminating resistor Z2).

- ▶ Place the cable correctly in the profile slot.

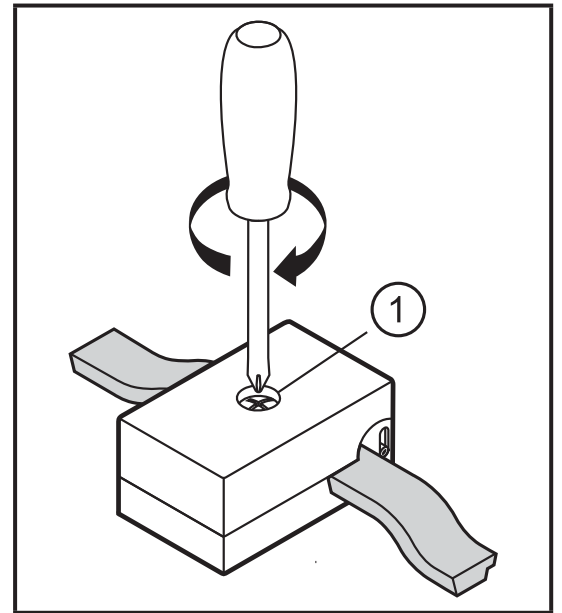


- ▶ The free profile slot can be used for monitoring the external voltage supply (AUX, black flat cable).

- ▶ If the black flat cable is not used, seal the profile slot with a flat cable blank (E70399).



- ▶ Close the upper part and firmly tighten screw (1). Tightening torque 1.65 Nm.



- ▶ Seal open flat cable ends using the flat cable seal (E70413, to be ordered separately) to ensure the protection rating.

Suitable for AS-i flat cables with EPDM, TPE and PUR sheaths as well as cable cross sections of 1.5 mm<sup>2</sup> and 2.5 mm<sup>2</sup>.

## 5 Checking the signal quality

Check the signal quality as follows:

With the diagnostic and analysis tool "eASi-Tester", order number AC1145

or

with the AS-i gateway under the menu → AS-i master → diagnosis → error counter, order number AC14xx.



Technical data and further information at [www.ifm.com](http://www.ifm.com)