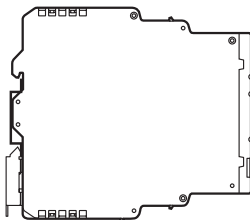




Operating instructions
AS-i SmartLine Repeater
AC3226

UK

80290391/00 12/2019



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1 Preliminary note

Technical data, approvals, accessories and further information at www.ifm.com.

2 Safety instructions

- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (→ Functions and features).
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the product must be carried out by qualified personnel authorised by the machine operator.
- The plant operator is responsible for the safety of the plant in which the device is installed.
- If the device is not used as intended by the manufacturer, the protection supported by the device may be impaired.
- Protect units and cables against damage.

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2.1 Symbols used

► Instructions

→ Cross-reference



Important note

Non-compliance may result in malfunction or interference.



Information

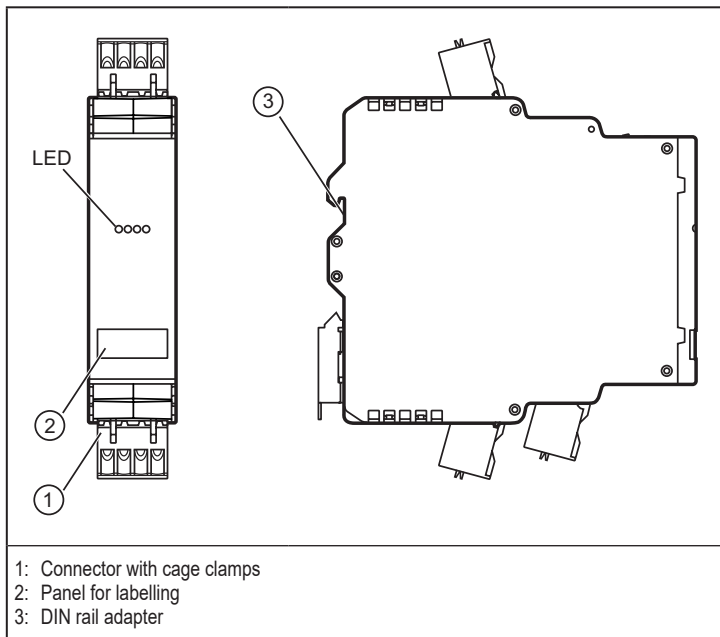
Supplementary note.

3 Functions and features

The AS-i repeater is used to extend the cable length of an AS-i network by another 100 m. The incoming data of the AS-i line 1 is processed and transmitted to the AS-i line 2. The data of the AS-i line 2 is also processed and transmitted to the AS-i line 1.

- Electrical separation of the incoming and outgoing AS-i network
- Additional AS-i power supply required
- Connection of the AS-i lines via Combicon connectors (accessories)

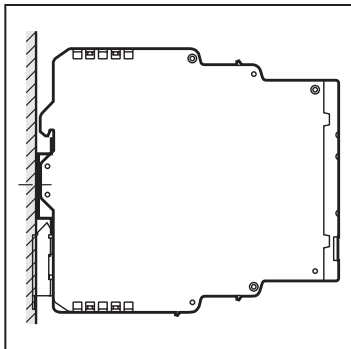
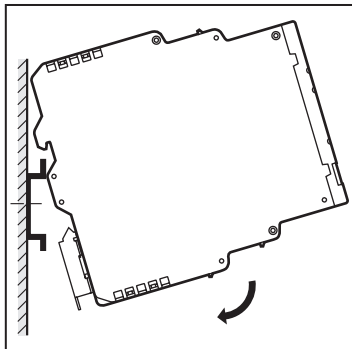
4 Operating and display elements



5 Installation

5.1 Installation of the device

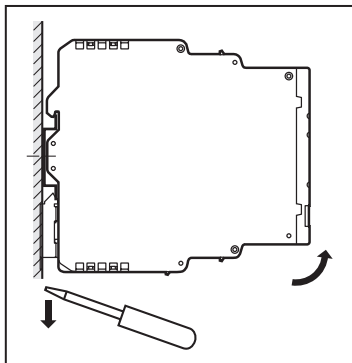
- ▶ Install the device on a 35 mm DIN rail.



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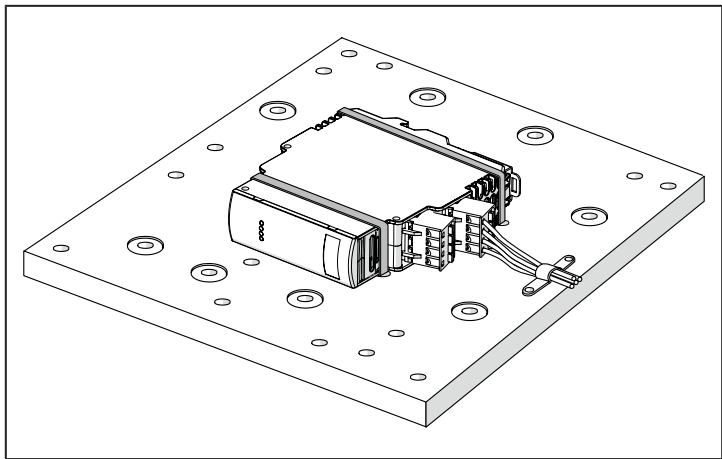
- ▶ Leave enough space between the unit and the top and bottom of the control cabinet to enable air circulation and to avoid excessive heating.
- ▶ Take into account the internal heating of all devices when mounting several devices side by side and observe the environmental conditions for every device.

5.2 Removal of the device



5.3 Installation with increased mechanical stress

- ▶ If installed in machines with increased mechanical stress (high shock and vibration stress) mount the units lying flat against the base of the panel.
- ▶ Screw or clamp the units and secure the cables.



6 Electrical connection

- ▶ Connect the incoming AS-i line 1 to the terminals A+ and A- and the outgoing AS-i line 2 to the terminals A+ and A-.



An additional AS-i power supply is required for the outgoing AS-i line 2.

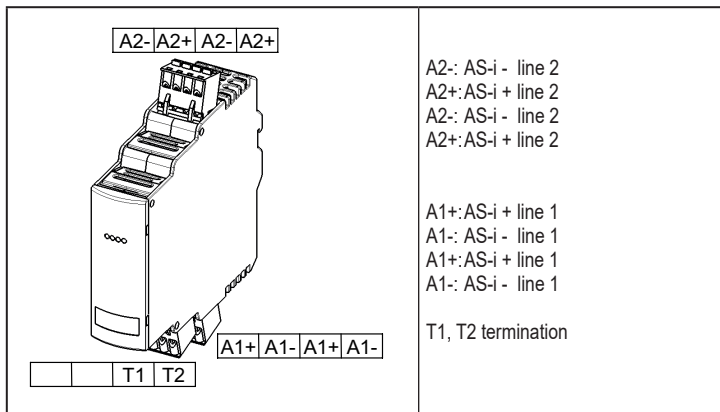


Incoming and outgoing AS-i lines must not be connected to each other, otherwise the electrical separation of the repeater is eliminated.



In case of AS-i lines longer than 100 m, the AS-i bus can be terminated. For this purpose, connect T1 and T2 using the supplied link.

6.1 Terminal connection



7 Operation / LEDs

LED PWR 1 green: AS-i voltage 1 OK

LED TERM yellow: Termination active

LED PWR 2 green: AS-i voltage 2 OK

8 Maintenance, repair, disposal

8.1 Servicing

The device is maintenance-free.

8.2 Cleaning of the housing surface

- ▶ Disconnect the device.
- ▶ Clean the device from dirt using a soft, chemically untreated and dry cloth.



Micro-fibre cloths without chemical additives are recommended.

8.3 Disposal

- ▶ Dispose of the device in accordance with the national environmental regulations.