

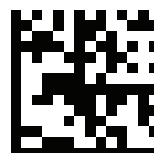


Quick reference guide
io-key
AIK

GB

11447164/00 04/2022

80291660/01



1 Preliminary note

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

Activation is done at www.io-key.ifm → Chapter 6.1 Initial installation.



You will find detailed and specific information on the product in the digital instructions at <https://help.io-key.com>.

If radio approvals are granted, the approval texts of the respective countries apply. Please refer to the enclosed documents.

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.

2.1 Symbols used



Instruction



Reaction, result



Information

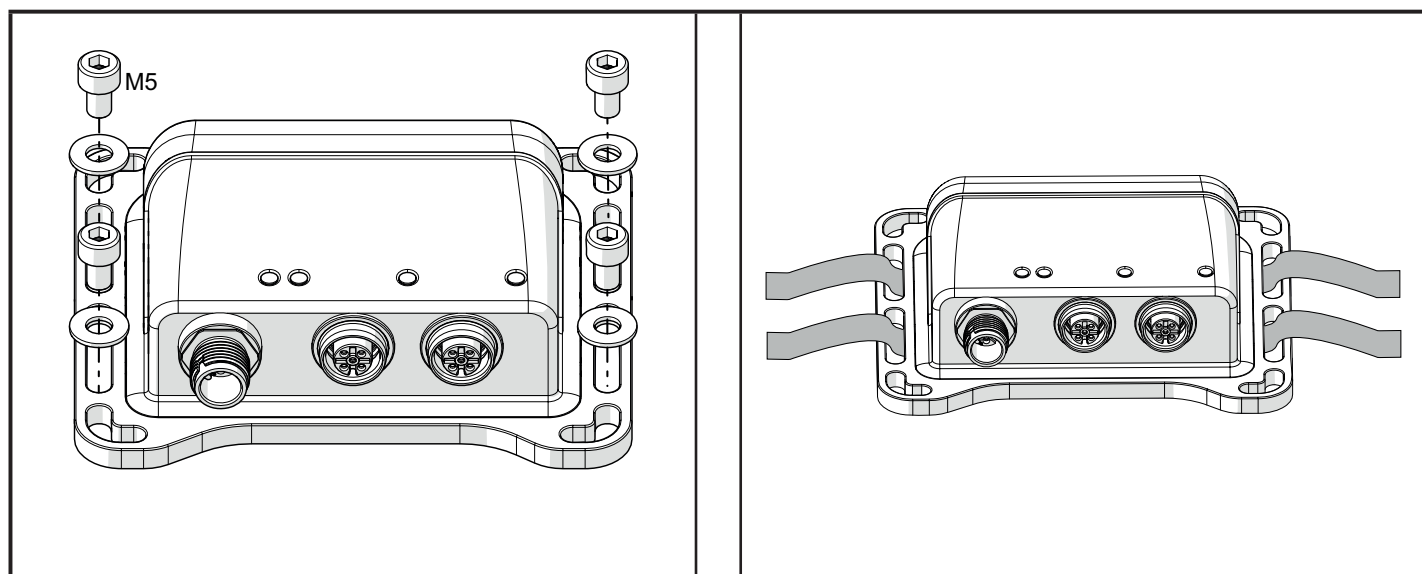
Supplementary note.

3 Functions and features

- The device transmits sensor data to the ifm cloud via an embedded SIM card. In the cloud, the sensor data is visualised and can be used to carry out analyses, evaluations and create alarm rules.
- The device is designed for use outside of a control cabinet.

4 Installation

Install the device, e.g. using 4 M5 screws or fixing straps.



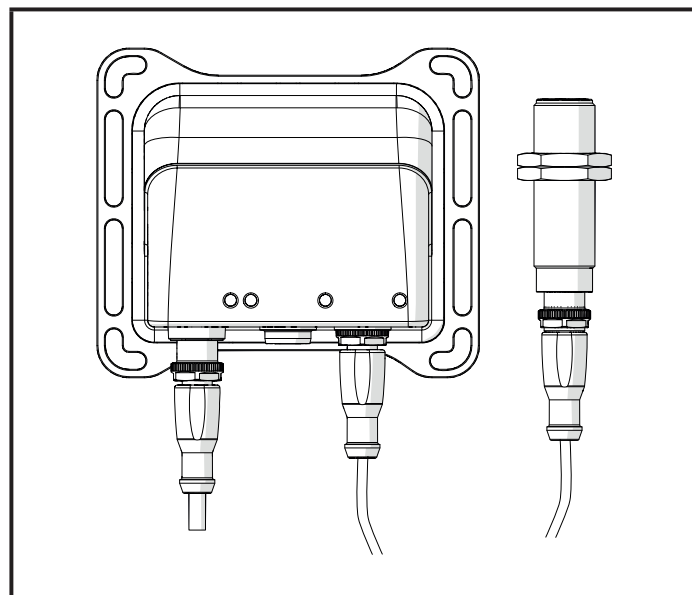
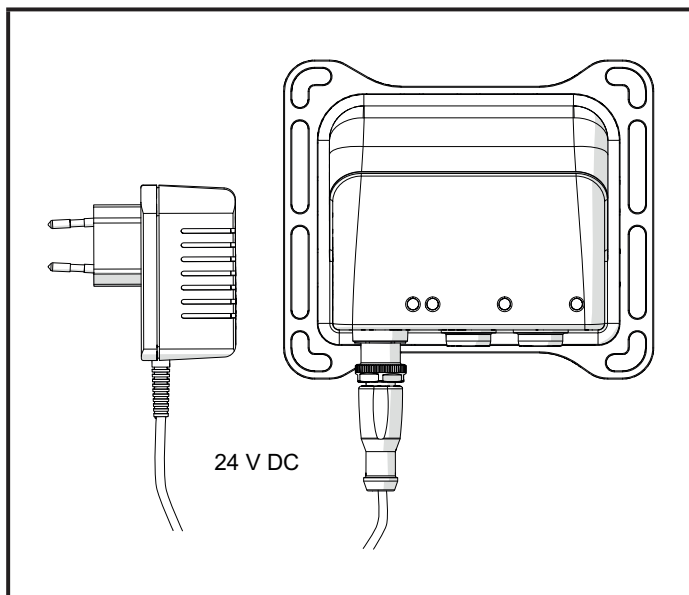
5 Electrical connection

- Disconnect power.
- Connect the unit.

5.1 Wiring

	M12 power 1: + 24 V DC (US) 2: DQ (OUT 2) 3: GND (US) 4: DQ (OUT 1)		IO-Link ports 1 and 2 1: + 24 V DC (US) 2: not used 3: GND (US) 4: C/Q IO-Link
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- Connect voltage supply and IO-Link sensor(s).



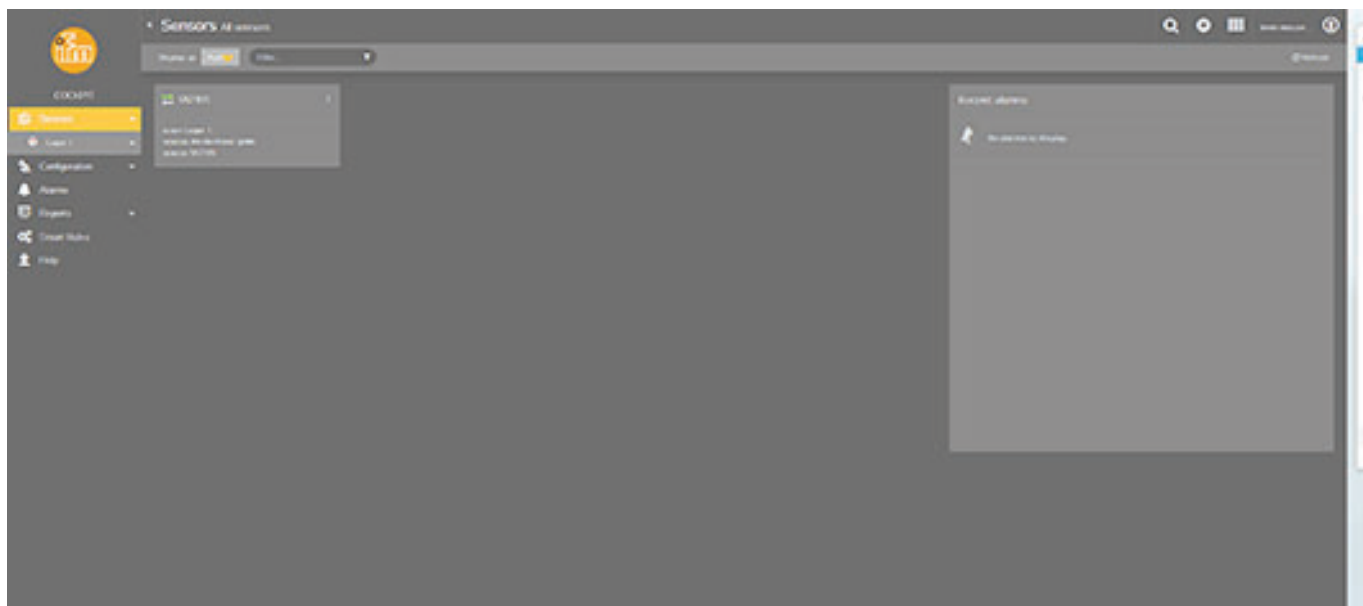
6 Set-up

6.1 Initial installation

- Open a browser and enter www.io-key.ifm.
- Follow the instructions on the screen for activation and set-up.
- > The customer will receive a message confirming successful activation via e-mail.

6.2 Cloud login

- Open a browser and enter your selected URL:
customername-desiredURL.io-key.ifm.
- Enter your user name and password.
- > Visualisation of the data in the cloud.



7 Operation

7.1 LED display

Status LED	Colour	Status	Meaning
Power	green	on	device is switched on, supply voltage ok
		off	no supply voltage or supply voltage too low
Mobile network connection	yellow	on	mobile network connection to the cloud has been established
		off	error in the mobile network connection
		flashes	firmware update is in progress
IO-Link port 1/2	green	on	IO-Link transmission ok
		off	no sensor connected
		flashes (1 Hz)	IO-Link device - connection is being established and IODD is being retrieved
		flashes (4 Hz)	error during the connection or the IO- Link transmission

8 Maintenance, repair and disposal

The operation of the device is maintenance-free. It is not possible to repair the device. Dispose of the device in an environmentally friendly way in accordance with the applicable national regulations when it is no longer used.