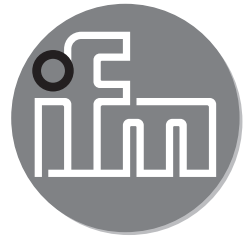


ifm electronic



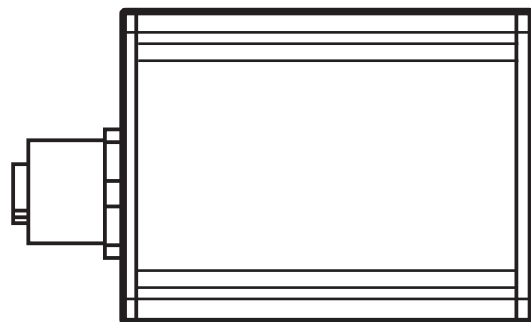
Operating instructions
IO-Link interface

UK

E30390

07 / 2013

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1 Items supplied

- IO-Link interface
- USB cable
- plug-in power supply
- M12 connection cable
- operating instructions

2 System requirements

- PC with Microsoft Windows® XP SP3 / Microsoft Windows® 7
- one free USB 2.0 port
- current software (→ 2.1)

2.1 Software

The following software is suitable for use with this interface:

2.1.1 ifm Container

The software is available for download at www.ifm.com/gb/io-link or under the order no. E30110. The software ifm Container is part of the ifm software package. It includes:

- FDT framework software ifm Container
- USB master V2.0 DTM
- DTM for interface E30390
- IODD interpreter DTM
- driver for interface
- ifm IO-Link DTM
- ifm EPS DTM (E30390 does not support EPS).

2.1.2 LINERECORDER SENSOR

The software is available under the order no. ZGS210 and includes the following components:

- framework software LINERECORDER SENSOR
- current set of IODDs
- driver for interface

3 Functions and features

The interface connects sensors with IO-Link capability to a PC and provides the following options via the IO-Link interface:

- reading of the current parameter setting.
- parameter setting of the sensor.
- reading of the current measured values and further process values.

The interface is not suitable for permanent installation as an automation device.

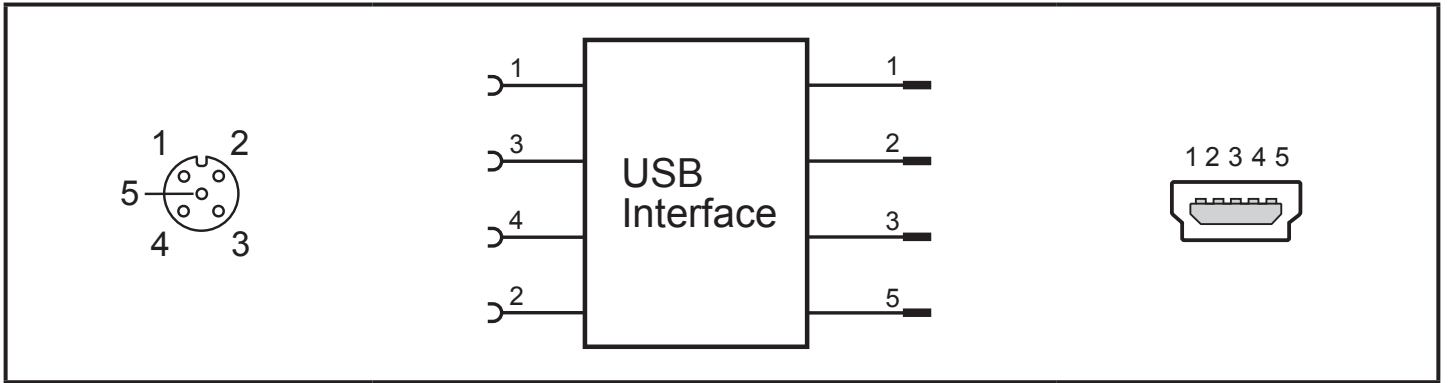
4 Installation

You must have administrator rights for installation.

- ▶ Connect the interface to the PC via a USB port.
 - ▶ Install the framework software:
 - insert the CD-ROM 'ifm Container' into the PC drive or open and execute the installer file 'ifm Software.exe' downloaded from the website,
- or
- connect the USB memory stick LINERECORDER SENSOR to the PC.
- > The Microsoft Windows® hardware wizard is started.
- ▶ Follow the instructions of the program. Select the following options:
 - find locally available drivers.
 - select driver from inserted CD-ROM or USB memory stick.

5 Electrical connection

5.1 Connecting the sensor to a PC via the interface



- ▶ Connect the sensor to the interface using the M12 connection cable.

Socket 1	+ 24 V
Socket 2	CH2 (DI/DO)
Socket 3	GND
Socket 4	IO-Link: CH1 (C/Q)
Socket 5	not used

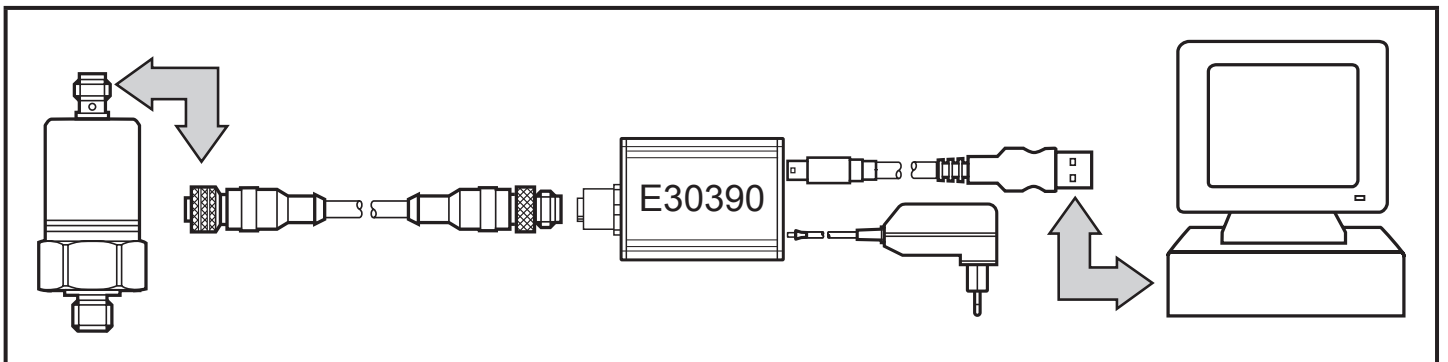
- ▶ Connect the interface to a PC using the USB cable.

5.2 Power supply via an additional plug-in power supply

If a sensor needs a higher current than 80 mA either for a short time (e.g. at power-on) or permanently, the power supplied via the USB port will not be sufficient.

- ▶ Connect the supplied plug-in power supply to the interface.

6 Set-up



- ▶ Connect the interface to the sensor and to a USB 2.0 port of the PC (→ 5).

- > After a short initialisation period, the interface supplies the sensor with operating voltage.
- > If the sensor is addressed via the software ifm Container or the LINERECORDER SENSOR (→ 2.1), the interface determines the correct communication mode and starts the exchange of data.

If the sensor does not have a suitable communication protocol, no data is exchanged.

7 Operation

UK

LED	Colour	State	Meaning
PWR	yellow	lighting	voltage supply via USB port
		flashing	undervoltage or overload with voltage supply coming via USB port
CH1 (C/Q)	green	IO-Link mode: flashing slowly	no IO-Link connection
		flashing quickly	'preoperate' state
lighting		IO-Link connection is exchanging data ('operate' state)	
	yellow	lighting	switching state of the digital output
CH2 (DI/D0)	yellow	lighting	switching state of the digital output
error	red	lighting	error (short circuit, data transmission error, overload at DIO 1 (C/Q) or DIO 2)

8 Technical data and scale drawing

Technical data and scale drawing at www.ifm.com → Data sheet search → Enter the article number.

More information at www.ifm.com