

Operating instructions IO-Link interface E30390

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1 Items supplied

- IO-Link interface
- USB cable
- Plug-in power supply
- M12 jumper cable
- Operating instructions

2 System requirements

- PC with Microsoft Windows® XP SP3 / Microsoft Windows® 7
- One free USB 2.0 port
- Current software $(\rightarrow 2.1)$

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 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 Linerecorder Sensor software is supplied with the following items:

- 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 (\rightarrow 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 LINERECOR-DER SENSOR, the interface determines the correct communication mode and starts the exchange of data.

If the sensor does not have a suitable communication protocol, there is no exchange of data.

7 Operation

LED	Co- Iour	Status	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 \rightarrow Data sheet search \rightarrow Enter the article number.