### Electrical Connections, LEDs

#### LED color Description
- Off: No sensor connected
- Green: Sensor operates within the measuring range
- Red: Sensor operates outside the measuring range
- Orange: Sensor in configuration mode (no measurement data output)

#### LED color Description for power and USB status
- Green: USB cable not connected or connection interrupted
- Red: USB cable not connected or connection interrupted
- Orange: Data output on USB interface activated and error-free data traffic
- Green: Data output on USB interface activated, data traffic is error-free or interrupted

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## Proper Environment

- **Protection class:** IP65
- **Temperature range:**
  - Operation: 0 ... +50 °C (+32 ... +122 °F)
  - Storage: 0 ... +160 °C (+32 ... +320 °F)
- **Humidity:** 95 % (non-condensing)
- **Ambient pressure:** Atmospheric pressure
- **The protection class is limited to water (no penetrating liquids, detergents or similar aggressive media).**

## Dimensional Drawing

- **C-Box/2A**
  - Dimensions in mm (inches)
  - Fig. 1: Dimensional drawing C-Box/2A, dimensions in mm (inches)
  - Fig. 2: Pin assignment sensor connections (1) for sensor 1 or sensor 2
  - Fig. 3: Description LED (1) for sensor 1 or sensor 2

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### Notes on CE Marking

- The C-Box/2A is designed for use in industrial and laboratory applications. It is used for:
  - Intended for industrial digital input signals, e.g., Profibus measurement.
  - Width of measurement values.
  - Filtering of measurement values.

## Intended Use

- The C-Box/2A is designed for use in industrial and laboratory applications. It is used for:
  - Calculation of two digital input signals, e.g., thickness measurement.

## Warnings

- Connect the power supply and the display/output device according to the safety regulations for electrical equipment.
- Risk of injury, damage or to destruction of the C-Box/2A.
- The safety supply must not exceed the specified limits.
- Avoid shocks and impacts to the C-Box/2A.
- Avoid shocks and impacts to the C-Box/2A.
- Damage to or destruction of the C-Box/2A.

## Notes on CE Marking

- For the C-Box/2A:
  - EU Directive 2011/65/EU
  - EU Directive 2011/65/EU

## You can find more information about the measuring system in the operation instructions.

They are available online at:

Quick Guide
Structure of the Components
- Sensors, C-Box/2A
- Power supply
- Laptop/PC and USB/Ethernet adapter or Ethernet cable

Up to two digital sensors of the same series can be connected to the C-Box/2A directly via RS422.
Both sensors are synchronized via the C-Box/2A; the C-Box/2A is the master.

Functions
- Processing of 2 input signals
- Programmable via Ethernet or USB
- Semi-automatic sensor recognition for sensors from MICRO-EPSILON with digital output
- D/A conversion of digital measurement values, output via current or voltage output
- Ethernet interface with TCP and UDP protocol
- USB interface
- A/D conversion of digital measurement values, output via current or voltage output

Access via Web Interface
Interactive web pages for setting the controller are now shown in the web browser.
The controller is active and supplies measurement values. The ongoing measurement can be
operated by means of function buttons in the chart control area. In the top navigation bar, all
functions (settings, measurement chart etc.) are available. The appearance of the webpages
change dependent of the functions and the connected sensors.
Each page contains parameter descriptions and tips on completing the web page.

Initial Operation
Connect the C-Box/2A via an RS422 connector to a PC/notebook.
Connect the power supply.
Start the program sensorTOOL in the sensor group dropdown menu, select Inter-
terface and in the sensor type dropdown menu, select C-Box.
Click the button.

Fig. 6 sensorTOOL program for sensor search
The program searches the available interfaces for connected C-Box/2A controllers.
Select the correct controller from the list.
Connect the power supply.
Connect the components with one another.

Fig. 7 First interactive web site after calling IP address

Disclaimer
All components of the device have been checked and tested for functionality in the factory. How-
ever, should any defects occur despite careful quality control, these shall be reported immediately to MICRO-EPSILON or your distributor/retailer.
MICRO-EPSILON reserves any changes on functionality whatever, be it costs caused by or result-
ed in any way to the product, in particular consequential damage.
For Germany / the EU, the following (disposal) instructions apply in particular:
- non-obstruction of these instructions.This manual...

For translations into other languages, the German version shall prevail.
In addition, the General Terms of Business of MICRO-EPSILON shall apply, which can be ac-
cessed under Legal details | Micro-Epsilon.

Transmissions, Disposal
In order to avoid the release of environmentally harmful substances and to ensure the reuse of
valuable raw materials, we draw your attention to the following regulations and obligations:
- Remove all cables from the sensor and/or controller.
- Under the registration number WEEE-Reg.-Nr. DE28605721, we are registered at the foundation
  for disposal to MICRO-EPSILON at the address given in the
- For translations into other languages, the German version shall prevail.