## Pin Assignment

| Connector | Pin | Signal | Description |
|---|---|---|---|
| ① | 1 | Ethernet Tx+ | - |
| | 2 | Ethernet Rx+ | - |
| | 3 | Ethernet Tx- | - |
| | 4 | Ethernet Rx- | - |

*Pin assignment of Ethernet interface*

We recommend the optionally available SCD2520-3 digital output cable.

| Connector | Pin | Wire color PC2008-5/M12 | Function | Description |
|---|---|---|---|---|
| ② | 1 | Brown | +24 VDC [1] | Power supply for interface module and sensors |
| | 2 | White | +24 VDC [1] | |
| | 3 | Blue | GND | |
| | 4 | Black | GND | |
| | 5 | Shield | Shield | |

*Pin assignment of power connection*

We recommend the optionally available PC2008-5/M12 supply cable.

1) Permissible supply voltage range 11 - 30 V

| Connector | Pin | Wire color PC1171-x | Function | Description |
|---|---|---|---|---|
| ③ | 1 | Brown | External input 1 | LLL = +5 V, HLL = +24 V |
| | 2 | Blue | External input 2 | LLL = +5 V, HLL = +24 V |
| | 3 | White | External input 3 | LLL = +5 V, HLL = +24 V |
| | 4 | Green | External input 4 | LLL = +5 V, HLL = +24 V |
| | 5 | Pink | External output 1 | LLL = +5 V, HLL = +24 V |
| | 6 | Yellow | External output 2 | LLL = +5 V, HLL = +24 V |
| | 7 | Black | External output 3 | LLL = +5 V, HLL = +24 V |
| | 8 | Gray | External output 4 | LLL = +5 V, HLL = +24 V |
| | 9 | Red | n.c | - |
| | 10 | Violet | n.c | - |
| | 11 | Gray/pink | Voltage output | LLL = +5 V, HLL = +24 V |
| | 12 | Red/blue | GND | - |

*Pin assignment I/0 interface*

We recommend the optional available PC1171-x supply and output cable.

| Connector | Pin | Signal IF2008 ETH | Signal Encoder |
|---|---|---|---|
| 4a | 1 | A+ | A+ |
| 4b | 2 | A- | A- |
| 4c | 3 | B+ | B+ |
| 4d | 4 | B- | B- |
| 4e | 5 | R+ | R+ |
| 4f | 6 | R- | R- |
| 4g | 7 | +24 VDC [1] | n.c |
| 4h | 8 | Laser on/off [1] | n.c |
| | 9 | Multi-function output [1] | n.c |
| | 10 | ERROR input [1] | n.c |
| | 11 | +5 VDC | +5 VDC |
| | 12 | GND | GND |

*Pin assignment encoder interface*

1) Only for sensors

| Connector | Pin | Signal IF2008 ETH | Signal ILD1420 | Signal ILD1900 | Signal ILD2300 | Signal ILD5500 | Signal IFC24xx | Signal IFC2410/ IFC2415 | Signal IMS5x00 | Signal ILR3800 | Signal ODC2520 [1] | Signal ODC2700 [2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4a | 1 | TRG+ | n.c | TRG+ | TRG+ | TRG+ | n.c. | n.c. | n.c. | n.c. | Sync+ | TRG+ |
| 4b | 2 | TRG- | n.c | TRG- | TRG- | TRG- | n.c. | n.c. | n.c. | n.c. | Sync- | TRG- |
| 4c | 3 | Tx+ | Rx+ | Rx+ | Rx+ | Rx+ | Tx+ | Tx+ | Tx+ | Rx+ | Rx+ | Tx+ |
| 4d | 4 | Tx- | Rx- | Rx- | Rx- | Rx- | Tx- | Tx- | Tx- | Rx- | Rx- | Tx- |
| 4e | 5 | Rx+ | Tx+ | Tx+ | Tx+ | Tx+ | Rx+ | Rx+ | Rx+ | Tx+ | Tx+ | Rx+ |
| 4f | 6 | Rx- | Tx- | Tx- | Tx- | Tx- | Rx- | Rx- | Rx- | Tx- | Tx- | Rx- |
| 4g | 7 | +24 VDC | +24 VDC | +24 VDC | +24 VDC and Laser on/off+ | +24 VDC | n.c. | +24 V | n.c. | +24 VDC | +24 V VDC | +24 V VDC |
| 4h | 8 | Laser on/ off | Laser on/off | Laser on/off | Laser on/ off | Laser on/ off | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. |
| | 9 | Multi-function output | Multi-function input | Multi-function input | n.c. | Multi-function input | TRG+ (HLL) | TRG+ (HLL) | TRG+ (HLL) | Multi-function input | MFU | n.c. |
| | 10 | ERROR input | ERROR output | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. |
| | 11 | + VDC (only for encoder) | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. | n.c. |
| | 12 | GND | GND | GND | GND | GND | GND | GND | GND | GND | GND | GND |

*Pin assignment sensor interface*

1) We recommend the optionally available PCE2520-3/M12 supply and output cable, see Operating Instructions.
2) We recommend the optionally available PCE2700-3/M12 supply and output cable, see Operating Instructions.

MICRO-EPSILON

Setup Guide

# IF2008/ETH

## Intended Use

The IF2008 ETH interface module is designed for use in industrial and laboratory applications. It is used to convert the MICRO-EPSILON internal sensor protocol (RS422) to Ethernet.

The IF2008 ETH interface module must only be operated within the limits specified in the technical data. The IF2008 ETH interface module must be used in such a way that no persons are endangered or machines and other material goods are damaged in the event of malfunction or total failure of the IF2008 ETH interface module. Take additional precautions for safety and damage prevention in case of safety-related applications.

## Warnings

Connect the power supply and the display/output device according to the safety regulations for electrical equipment.

> Risk of injury, damage to or destruction of the interface module

The supply voltage must not exceed the specified limits.

> Risk of injury, damage to or destruction of the interface module

Avoid shocks and impacts to the interface module.

> Damage to or destruction of the interface module

## Notes on Product Marking

The product meets the requirements of CE and UKCA. All specifications and safety instructions described in the operating instructions must be observed.

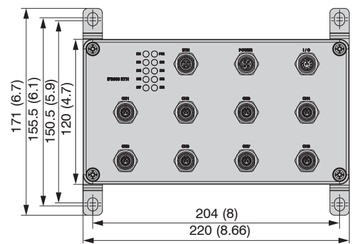
## Proper Environment

Protection class: IP65 (When all plugs are connected.)

- Temperature range:
  - Operation: 0 ... +50 °C (+32 ... +122 °F)
  - Storage: +5 ... +50 °C (+41 ... +122 °F)
- Humidity: 5 ... 95 % RH (non-condensing)
- Ambient pressure: Atmospheric pressure

## Installation and Assembly

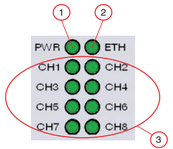
Ensure careful handling during installation and operation.




*Dimensional drawings IF2008 ETH interface module, dimensions in mm (inches, rounded off)*

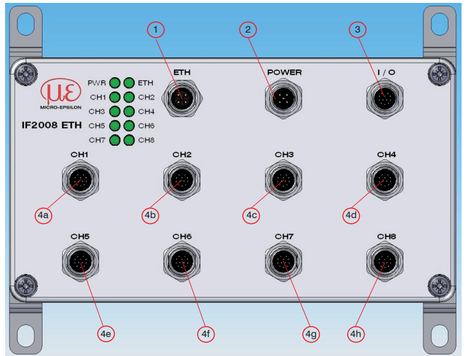
## LED Overview

| LED | LED color | Description |
|---|---|---|
| ① | Off | Power supply off |
| | Green | Interface module is ready for operation |
| | Orange | Interface module is in bootloader/flash mode |
| | Red | Initialization of the interface module |
| ② | Off | No Ethernet connection |
| | Orange | Connection between PC and interface module (100 Mbps) |
| | Flashing | Data transmission between PC and interface module |
| ③ | Off | No sensor/encoder selected |
| | Green | Interface set for sensor |
| | Orange | Interface set for sensor |




*Description of status LEDs IF2008 ETH interface module*

## Connector Overview




*Plug-in connections IF2008 ETH interface modul*

| Connector | Description |
|---|---|
| ETH | Flange socket, 4-pin, type Binder 09 3732 500 04 for Ethernet connection |
| POWER | Flange connector, 5-pin, type Binder 09 3441 600 05 for power connection |
| I/O | Flange connector, 12-pin, type Binder 09 3491 600 12 for power connection |
| CH1 - CH8 | Flange socket, 12-pin, type Binder 09 3492 600 12 for sensor/encoder connection |

*Overview of plug-in connections*

You can find more information about the interface module in the operating instructions. They are available online at:

https://www.micro-epsilon.com/download-file/man--IF2008-ETH--en.pdf

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