

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 inter- face 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/O interface

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

Connector	Pin	Signal IF2008 ETH	Signal Encoder
④a ④b ④c ④d ④e ④f ④g ④h	1	A+	A+
	2	A-	A-
	3	B+	B+
	4	B-	B-
	5	R+	R+
	6	R-	R-
	7	+24 VDC ¹	n.c
	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 ④b ④c ④d ④e ④f ④g ④h	1	TRG+	n.c	TRG+	TRG+	TRG+	n.c.	n.c.	n.c.	n.c.	Sync+	TRG+
	2	TRG-	n.c	TRG-	TRG-	TRG-	n.c.	n.c.	n.c.	n.c.	Sync-	TRG-
	3	Tx+	Rx+	Rx+	Rx+	Rx+	Rx+	Rx+	Rx+	Rx+	Rx+	Tx+
	4	Tx-	Rx-	Rx-	Rx-	Rx-	Rx-	Rx-	Rx-	Rx-	Rx-	Tx-
	5	Rx+	Tx+	Tx+	Tx+	Tx+	Tx+	Tx+	Tx+	Tx+	Tx+	Rx+
	6	Rx-	Tx-	Tx-	Tx-	Tx-	Tx-	Tx-	Tx-	Tx-	Tx-	Rx-
	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
	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-func- tion output	Multi-func- tion input	Multi-func- tion input	n.c.	Multi-func- tion input	TRG+ (HLL)	TRG+ (HLL)	TRG+ (HLL)	Multi-func- tion 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.



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.

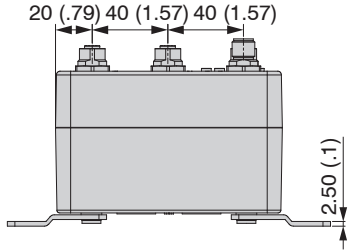
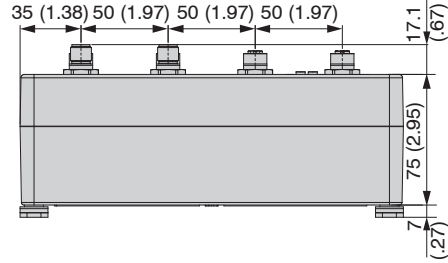
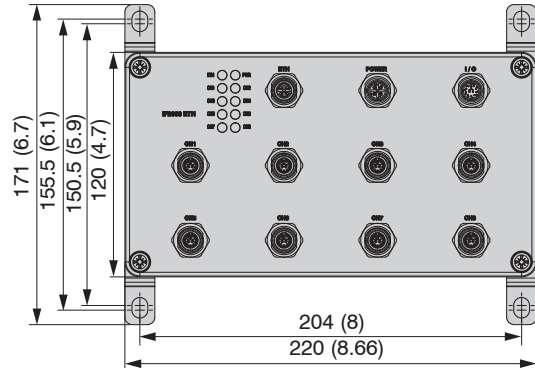
Proper Environment

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

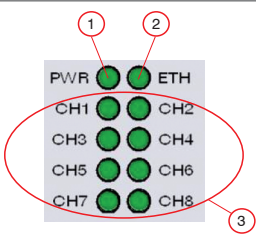
Ensure careful handling during installation and operation.



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

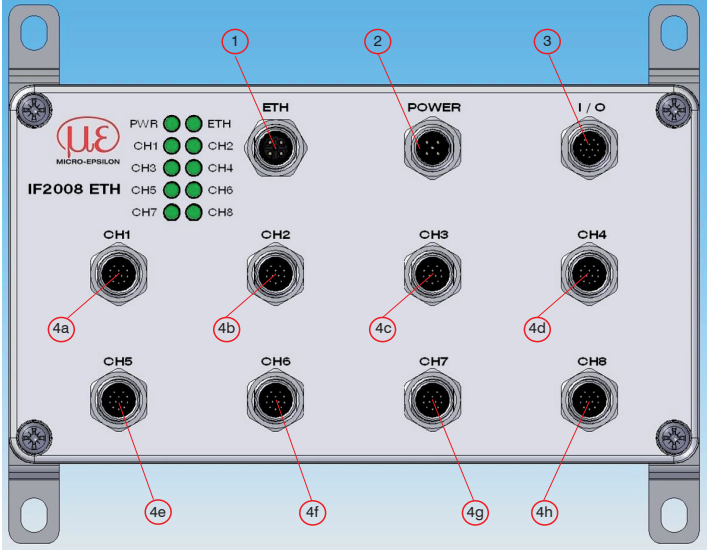
LED Overview

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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