Additional Information	Product	Light Source for IFC2451	Order No.	
	Stock No.	2418010 / 2418011	B-Order No.	
	Main Manual: X9751238			

MICRO-EPSILON

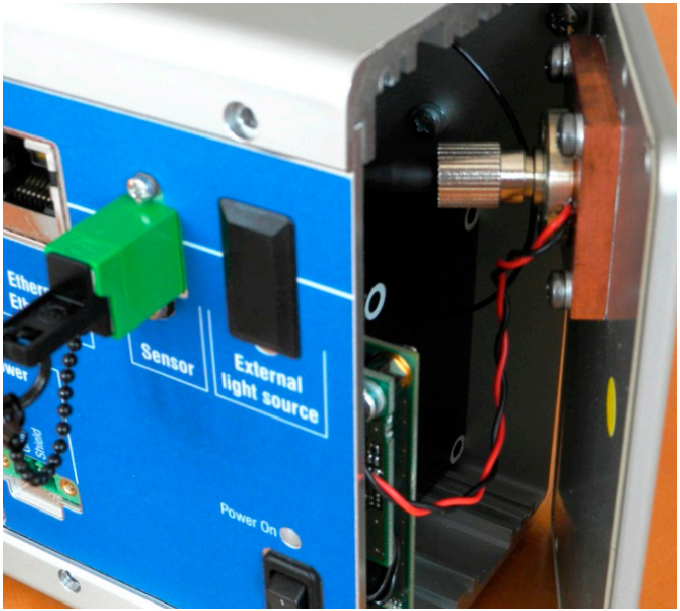
Changing the LED Lamp Module

NOTICE

Do not allow optical fibers to twist or bend tightly. Protect the optical fiber ends from dirt and contamination. Change the lamp module only in a clean environment.
> Damage to or destruction of the optical fibers; measurement instrument failure.

- Use the main switch (Power On) to switch off the controller.
- Remove the sensor connector, and insert the protective cap into the sensor end.
- Have the new LED lamp module ready, unscrew the protective cap from the LED, and put it on loosely.
- Remove the 6 screws from the right controller cover, and hold the cover in place.
- Remove the cover, and place it next to the controller.

i If the optical fibers are too short, position the cover higher. The black optical fiber for the LED is very thin and highly sensitive to bending; exceeding the minimum bending radius through tension may cause fibers to break.

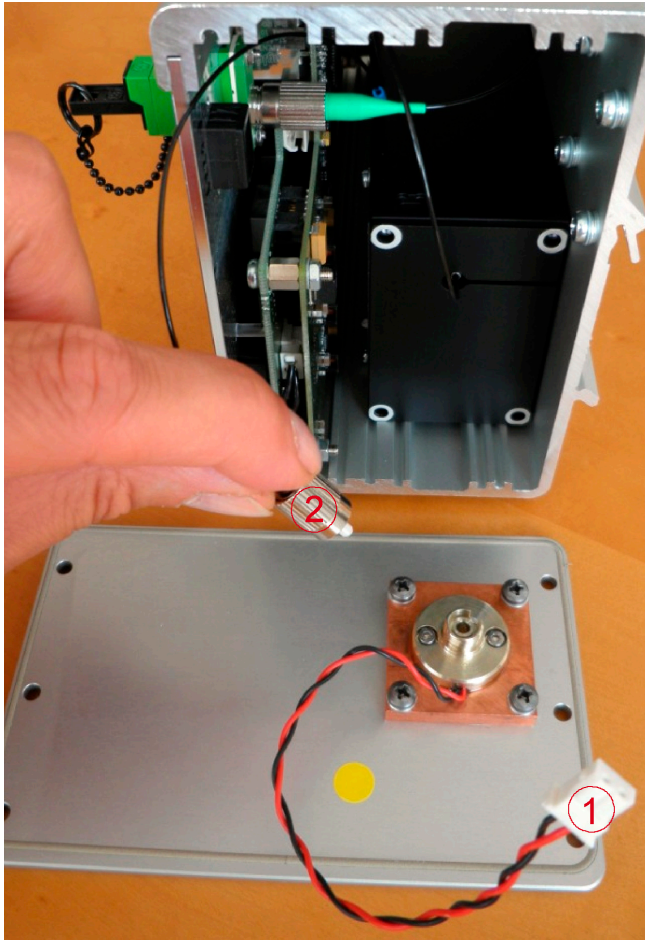


➡ Carefully remove the white supply connector (1) from the PCB.

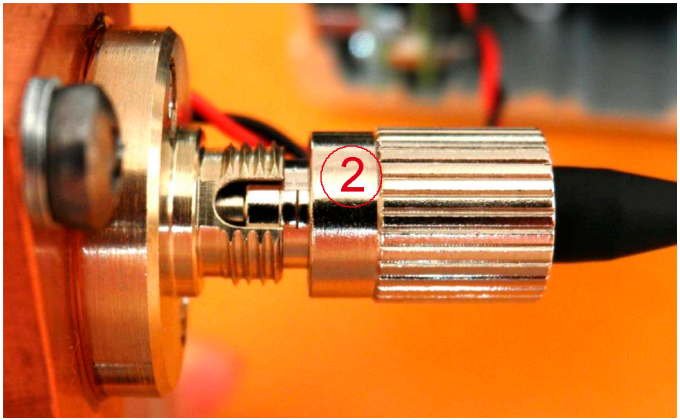
NOTICE

Do not touch or knock against the front face of the ceramic ferrule (fiber connector) to avoid contaminating the fibers, as this would lead to loss of light, causing failure of the measuring device.

➡ Unscrew the metal fiber connector (2) from the old LED, and pull out the fiber connector.



- Carefully insert the fiber connector (2) into the new LED module, align the lug in the groove, and tighten the fiber connector.
- Push the white supply connector (1) into the socket on the PCB, and use a screwdriver to push the connector until it clicks into place.



Use the same procedure if the LED is located on the back. The old LED remains in the controller. Shorten the electric connection cable.

- Hold the new cover to the casing, and insert the optical fiber in such a way to avoid any tight bending radius and to ensure that no cable gets wedged.
- Loosen all 6 countersunk bolts, and tighten them crosswise medium firmly.

First Startup After Changing the LED Lamp Module

- Connect the controller to the PC via Ethernet. Switch the controller on and let it warm up for approx. 30 minutes.

No sensor is connected to the controller.

- Perform a dark reference without a sensor. On the controller, press the `Dark reference` button or click the `Start dark reference` button on the web interface. `Video signal` menu > `Dark reference`.

The `Intensity` and `Range` LEDs on the controller will start flashing. The controller captures the current dark signal for about 20 seconds.

- Connect the optical fiber reflector (available as optional accessory) to the sensor end.
- Perform the light reference by entering the LIGHTCORR command via a terminal program.

i No data transfer must take place while the command is being executed.

The light reference may take up to 10 seconds. The results are stored.

- Remove the reflector.
- Perform a dark reference for any sensor that is going to be used.
- Connect the sensor to the warmed up controller, and select it on the controller (see menu `Settings > Select sensor)`.
- Remove the target from the measuring range, or cover the sensor front face with a piece of paper.

i For dark referencing, no object must be within the measuring range, and no ambient or external light must reach the sensor.

- On the controller, press the `Dark reference` button, or click the `Start dark reference` button on the Dark reference web page.

The `Intensity` and `Range` LEDs on the controller will start flashing. The controller captures the current dark signal for about 20 seconds.

Remove the paper cover from the sensor, and start the measurement process.

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