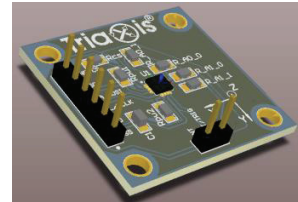


## Available hardware (EVB)

A EVB is available for easy access to the MLX90393. A MLX90393 is soldered to the PCB and extra samples are included in the box. Both SPI and I<sup>2</sup>C are supported.

Default the PCB is prepared to be used with SPI. Simply connect VDD, VSS, MISO, MOSI, CS and SCLK to the microcontroller to communicate with the MLX90393



To use I<sup>2</sup>C, some soldering is needed depending on the address needed:

- Rcs should be shorted (or place 0 Ohm);
- The I2C address should be set to the desired value by shorting the correct R\_Ax\_x pads. Default 0 Ohm is placed on R\_A0\_0 and R\_A1\_0 which sets the I2C address to 0x19 (Both A0 and A1 are shorted to VSS). Moving the resistor to R\_Ax\_1 will connect the pin to the VDD.
- Optionally Rpu1 and Rpu2 are foreseen as a pull up for the SCL and SDA communication lines. Usually this pull up is on the microcontroller side.

Only 4 wires are needed from the EVB to the microcontroller to work with I<sup>2</sup>C: VDD, VSS, SDA and SCL.

Also on the PCB is a pad for an optional decoupling capacitor C1 (Between VDD and VSS).

Below the schematic of the EVB can be seen. The orange external components are placed by default.

