

Getting Started with Photo Interrupter Sensor

Interface

Pin No.	Symbol	Descriptions
1	DOUT	Digital output
2	GND	Ground
3	VCC	Positive power supply (3.3V-5.0V)

How to use

We will illustrate the usage of the module with a NUCLEO-F103RB (STM32F103) or Arduino UNO development board. 1. Download the [Demo code](#) and extract it, then program the examples to your NUCLEO or Arduino development board. 2. Connect the development board to a PC via a serial wire and the module to the development board. Then, power up the development board and start the serial debugging software (e.g. PuTTY or Serial Monitor). Here is the configuration of the connection between the module and the development board.

Port	NUCLEO-F103RB Pin
DOUT	A0
GND	GND
VCC	3.3V

Port	Arduino Pin
DOUT	D2

GND	GND
VCC	5V

Here is the configuration of the serial port.

Baud rate	115200
Data bits	8
Stop bit	1
Parity bit	None

Expected result

When a barrier is placed above the sensor, the signal indicator will turn on and serial port will say "ON" or else the serial port will say "OFF".

Resources

- [Schematic](#)
- [sn74lvc1g126 EN Datasheet](#)
- [Demo code](#)
- [PuTTY for serial debugging](#)