

Measurement of illuminance with a BH1750FVI Breakout Board (GY-30) and an Arduino

In this circuit, we use a small BH1750FVI sensor on a breakout board and an Arduino to measure the illuminance in lux to detect the light in the room.

Components:

- Arduino
- BH1750FVI
- Breadboard
- Breadboard jumper wires

We connect our Arduino with the (GY-30) breakout board as follows:

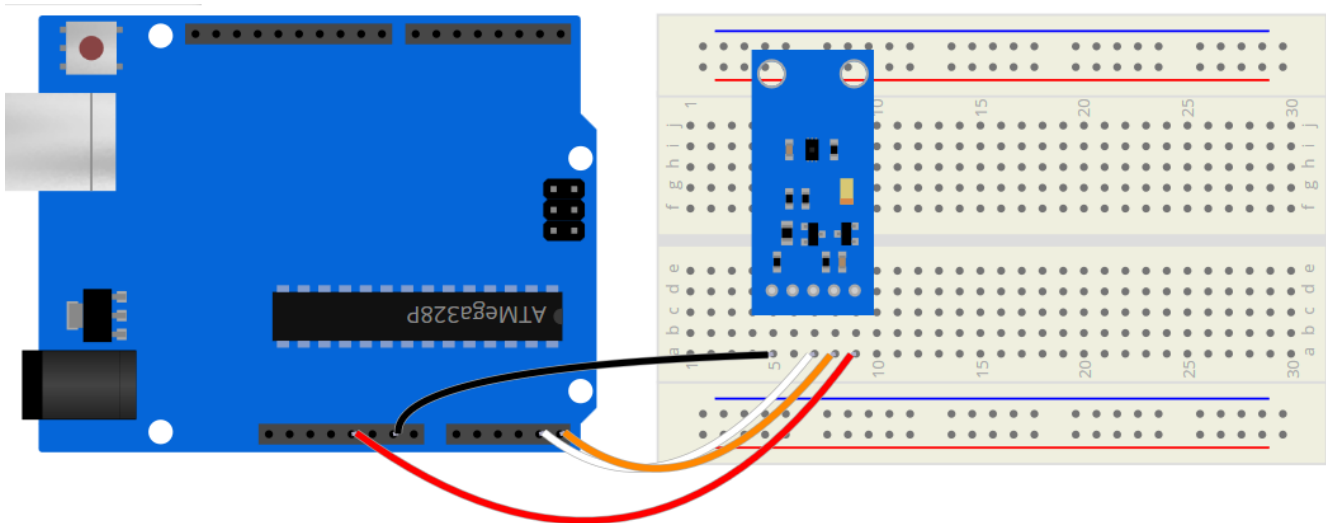


Fig. 1 Measurement of illuminance with a BH1750FVI Breakout Board (GY-30) and an Arduino

Arduino (Nano, Uno, Pro Mini)	Arduino (Mega, Mega 2560)	GY-30 BH1750FVI breakout board
5V oder 3.3V (VCC)	5V oder 3.3V (VCC)	VCC
GND	GND	GND
A4 (SDA)	D20 (SDA)	SDA
A5 (SCL)	D21 (SCL)	SCL

Reference

- <http://blog.simtronyx.de/en/measurement-of-illuminance-with-a-bh1750fvi-breakout-board-gy-30-and-an-arduino-uno/>