

Heartbeat Sensor

Hardware

The [XC3740](#) heartbeat sensor uses a MAX30102 sensor to detect small changes in pulse; It is provided without headers but these can be easily soldered onto the sensor's VIN, GND, SDA, and SCL lines. (**tip:** *If you're not yet great at soldering, we recommend trying our [XC3754](#) Christmas Tree soldering tutorial first.*)

XC3740 Pin UNO compatible connections

VCC	5V
GND	GND
SCL	A5 (SCL)
SDA	A4 (SDA)
INT *	Any digital interrupt pin, (interrupt Signal) <i>not needed.</i>
RD *	Red light ground (in-built red light activation) <i>not needed.</i>
IRD *	IR light ground (in-built IR light activation) <i>not needed.</i>

Source code

We use the "Sparkfun MAX3010x" Library by *Sparkfun*. But other libraries are available. You can use the `HeartRate` example to see it in action by clicking:

File > Examples > Sparkfun MAX3010x Pulse and Proximity Sensor Library > Example5_HeartRate