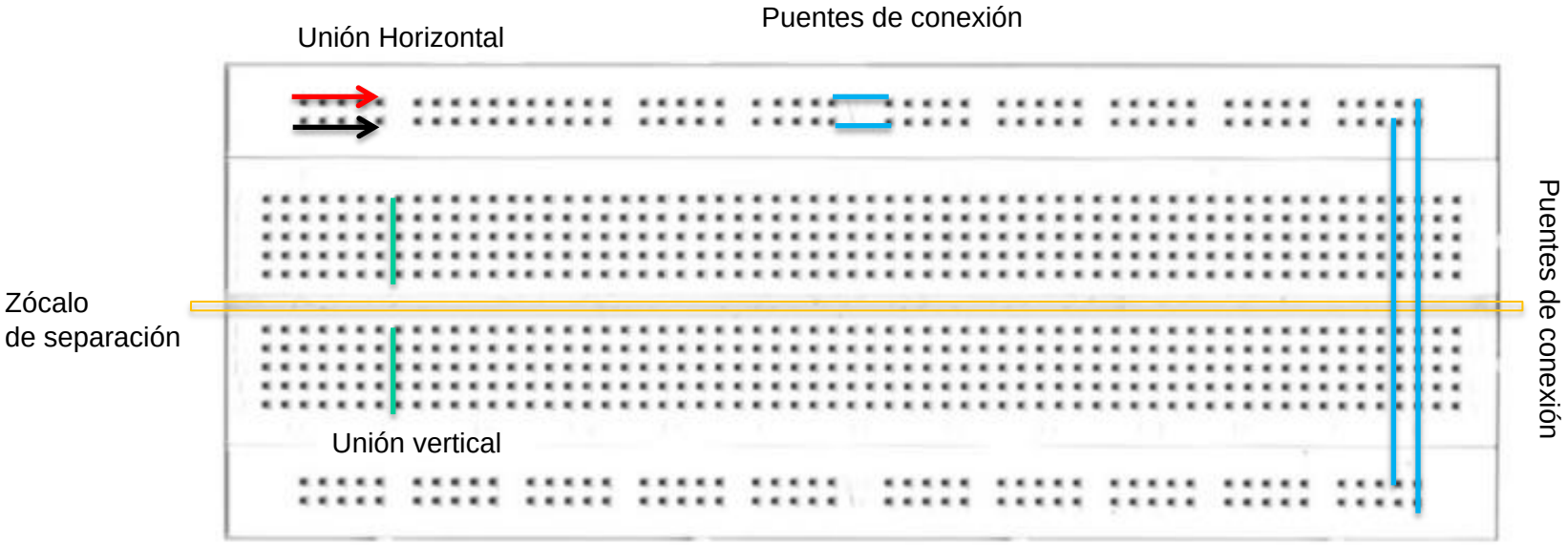
Algunos esquemas importantes

Protoboard



Protoboard
¿cómo funciona?

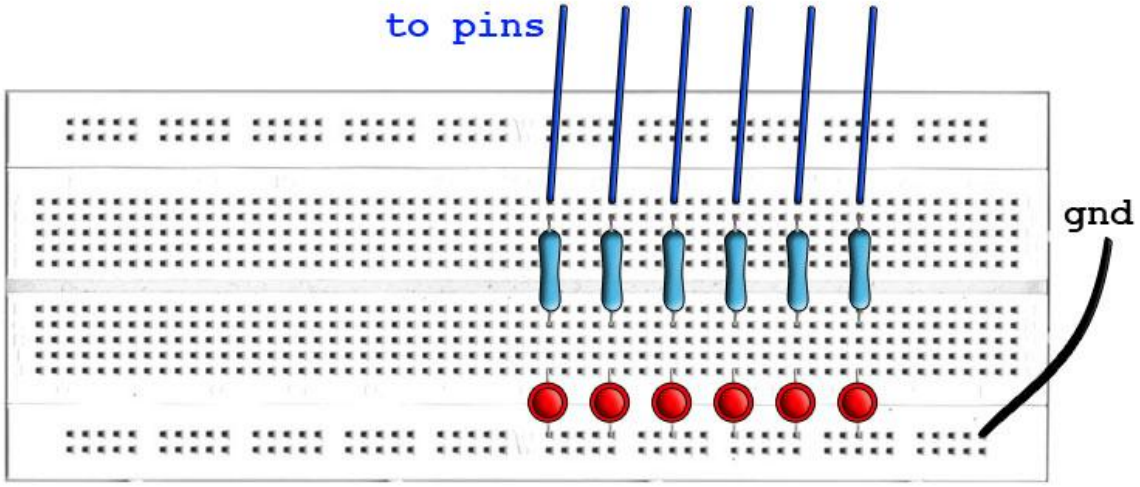
Puentes de conexión

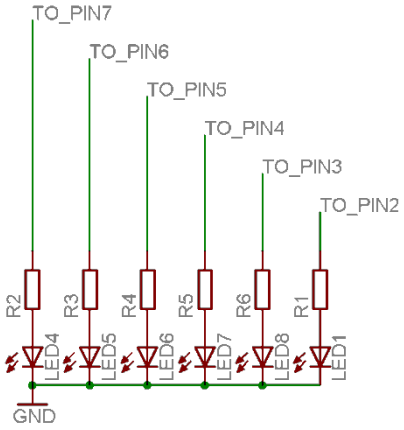
Puentes de conexión

Protoboard

Puentes a realizar si queremos continuidad

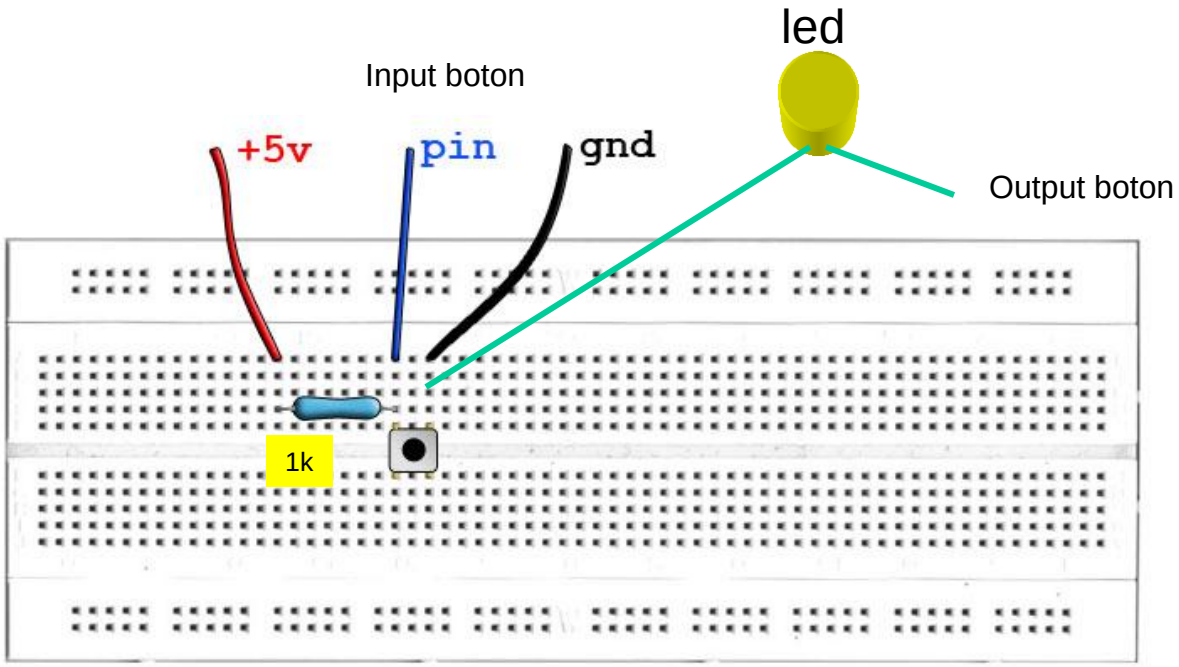
Leds

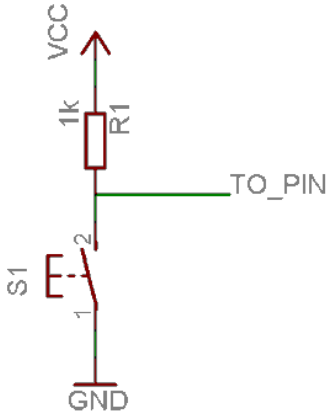




llamamos a la resistencia “pull up” resistor (mantener potencia estable dela fuente logica 5v)

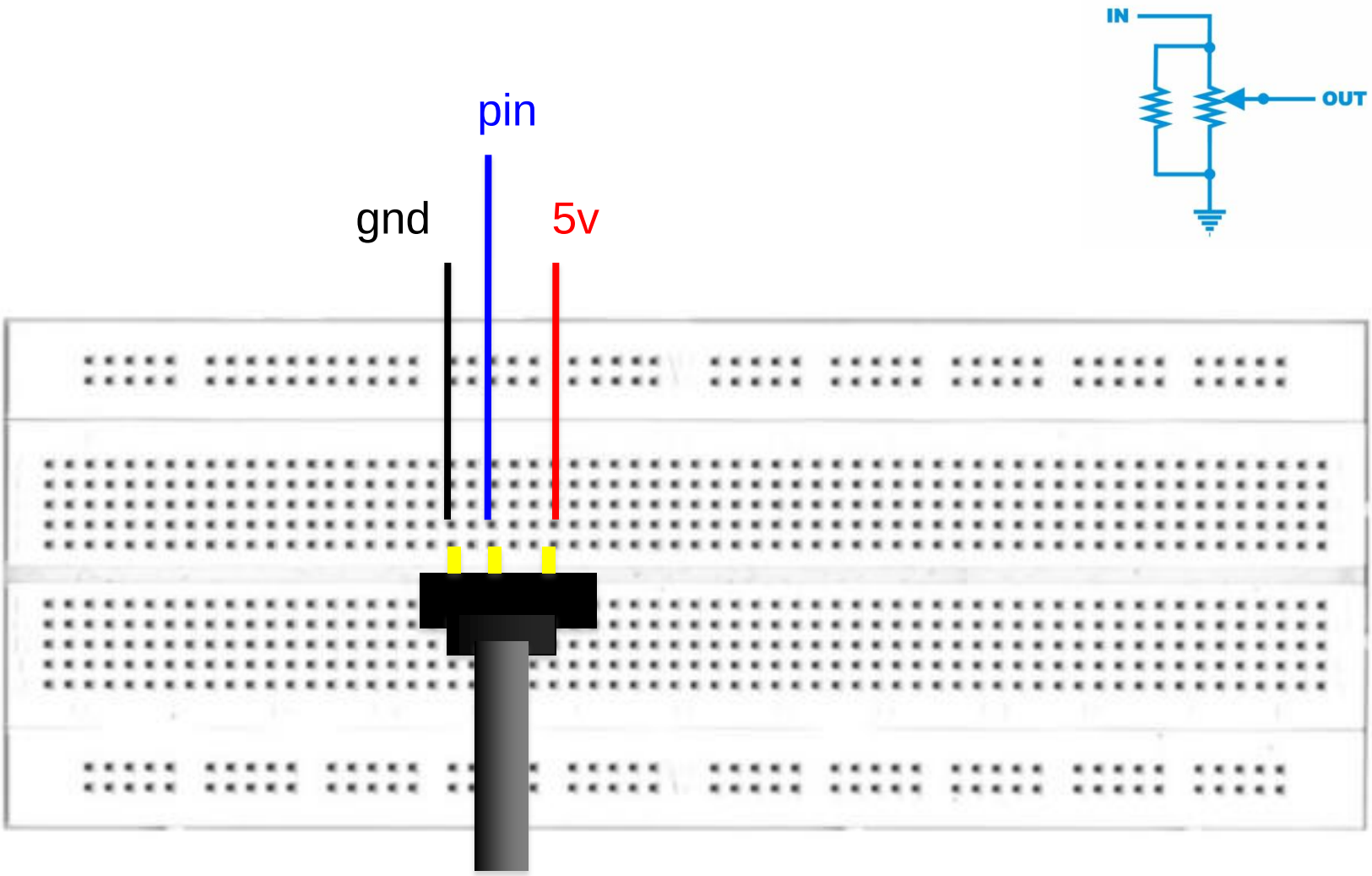
Boton/control led



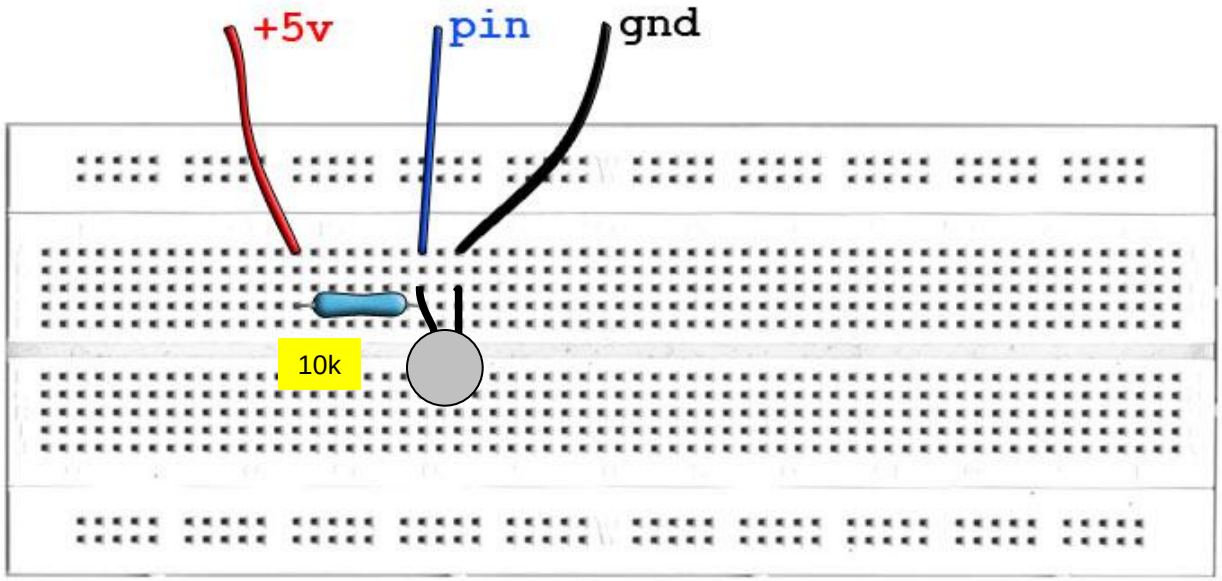


llamamos a la resistencia “pull up” resistor (mantener potencia estable dela fuente logica 5v)

Conectar un potenciómetro

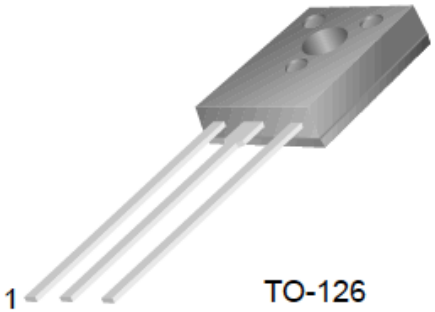


TILT sensor (sensor variable inclinómetro) o un LDR (fotoresistencia) también



- llamamos a la resistencia “pull up” resistor (mantener potencia estable dela fuente logica 5v)
- Pueden ser de 10K
- tu puedes utilizar el mismo código que el ejemplo de boton

Conectar un motor simple DC-5V con un transistor BD137

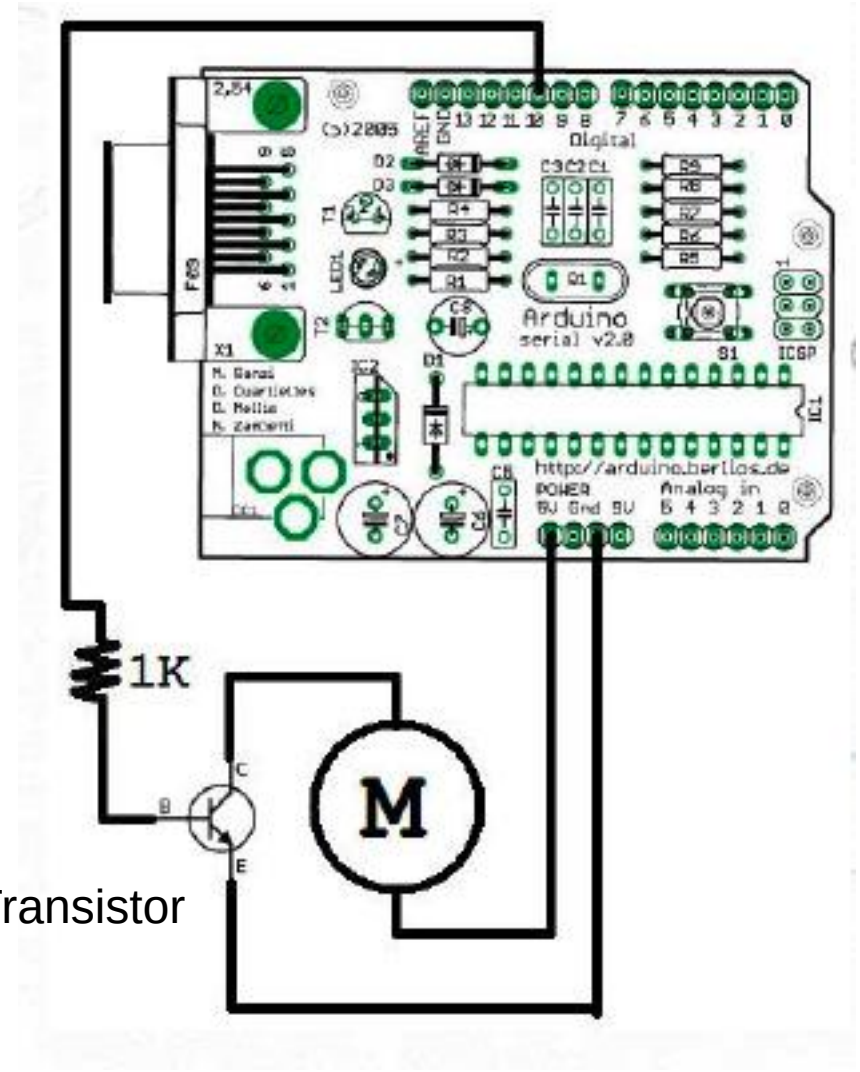


1 TO-126

1. Emitter 2.Collector 3.Base

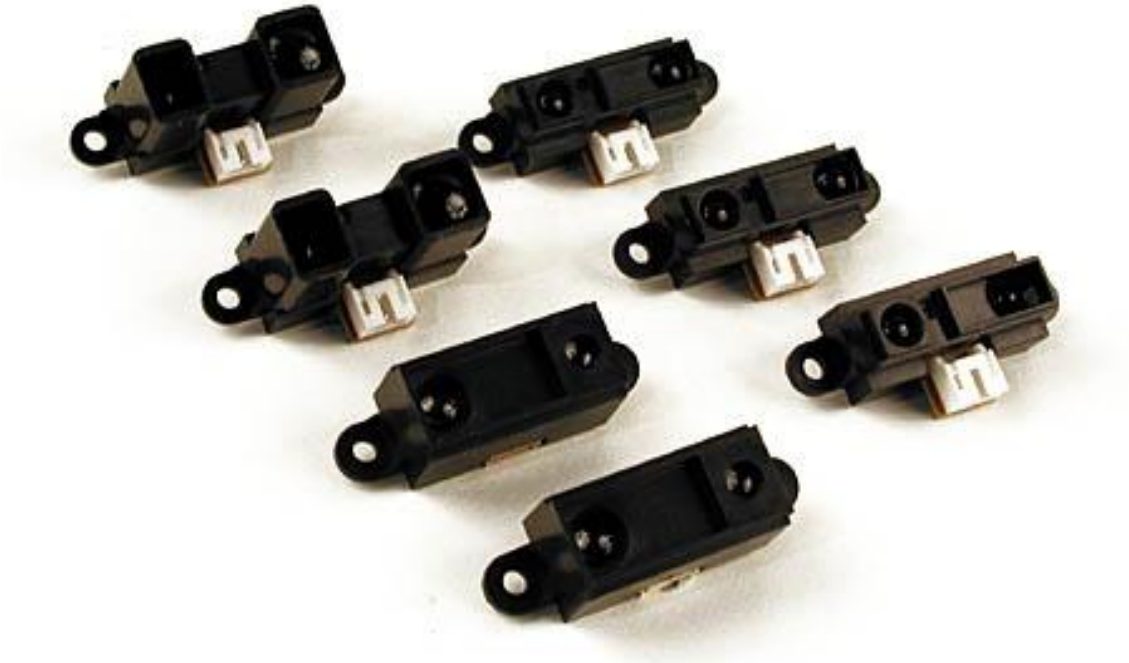
NPN-BD137

1-E= Emisor (ground)
2 -C = Colector (pin-motor)
3- B = Base (pin)



Transistor

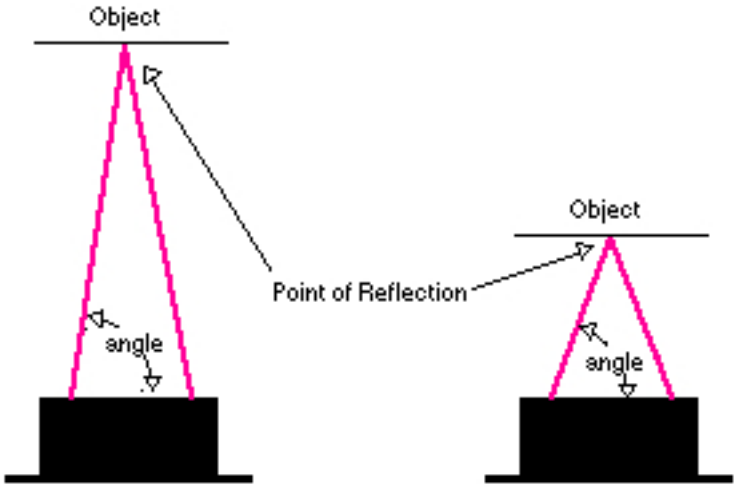
Conectar un IR SHARP GP2XX



http://www.acroname.com/robotics/info/articles/sharp/sharp_compare.pdf

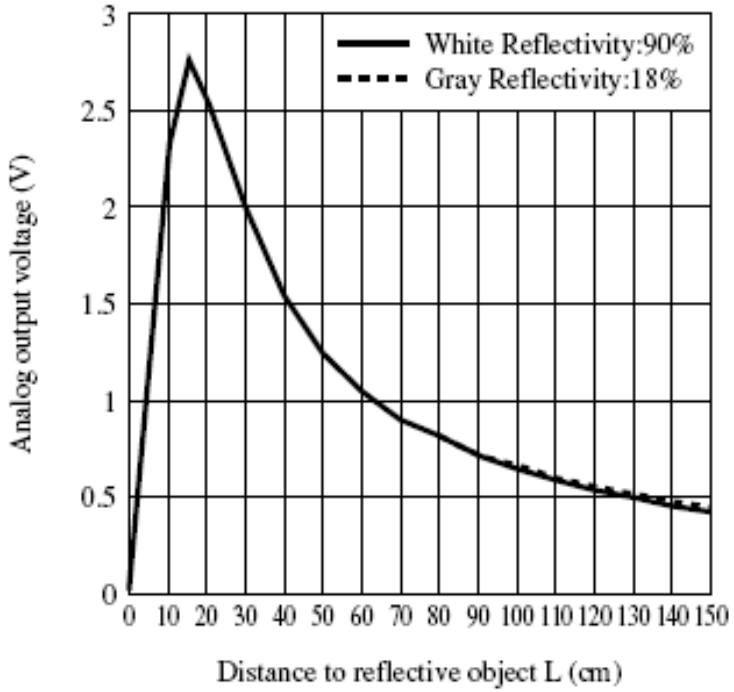
http://www.acroname.com/robotics/info/articles/sharp/sharp.html

Conectar un IR SHARP GP2XX



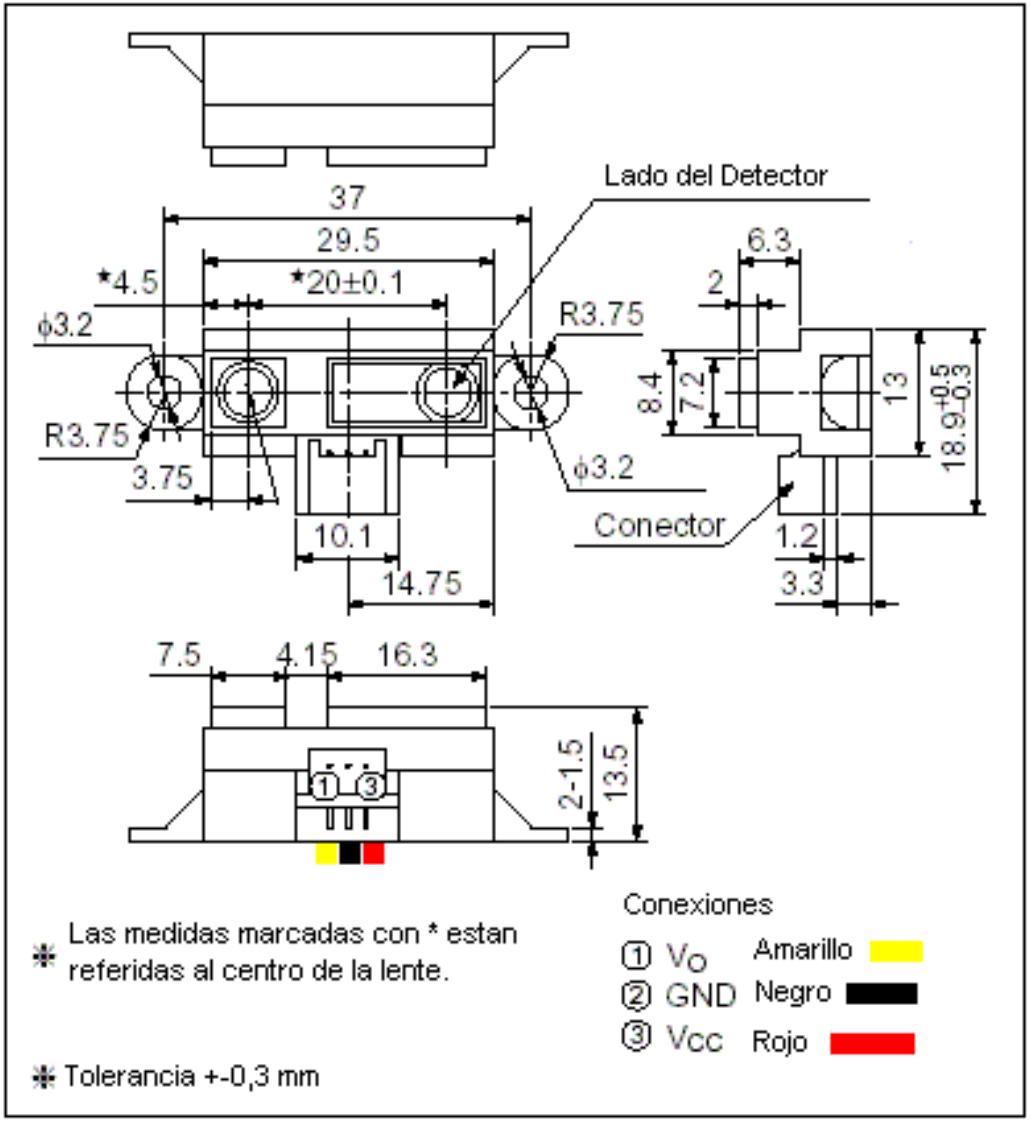
SHARP

Fig.3 Analog Output Voltage vs. Distance to Reflective Object



http://www.acroname.com/robotics/info/articles/sharp/sharp_compare.pdf

http://www.acroname.com/robotics/info/articles/sharp/sharp.html

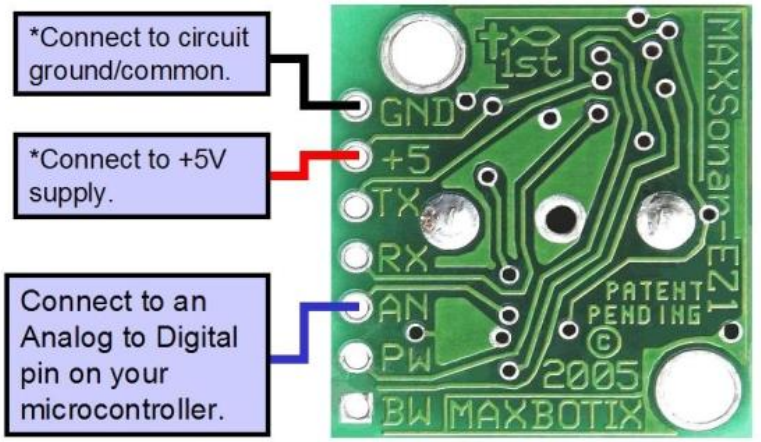


SHARP GP2D12

http://www.superrobotica.com/download/sharp/gp2d12.pdf

Conectar un sensor ultrasonidos MAXSONAR

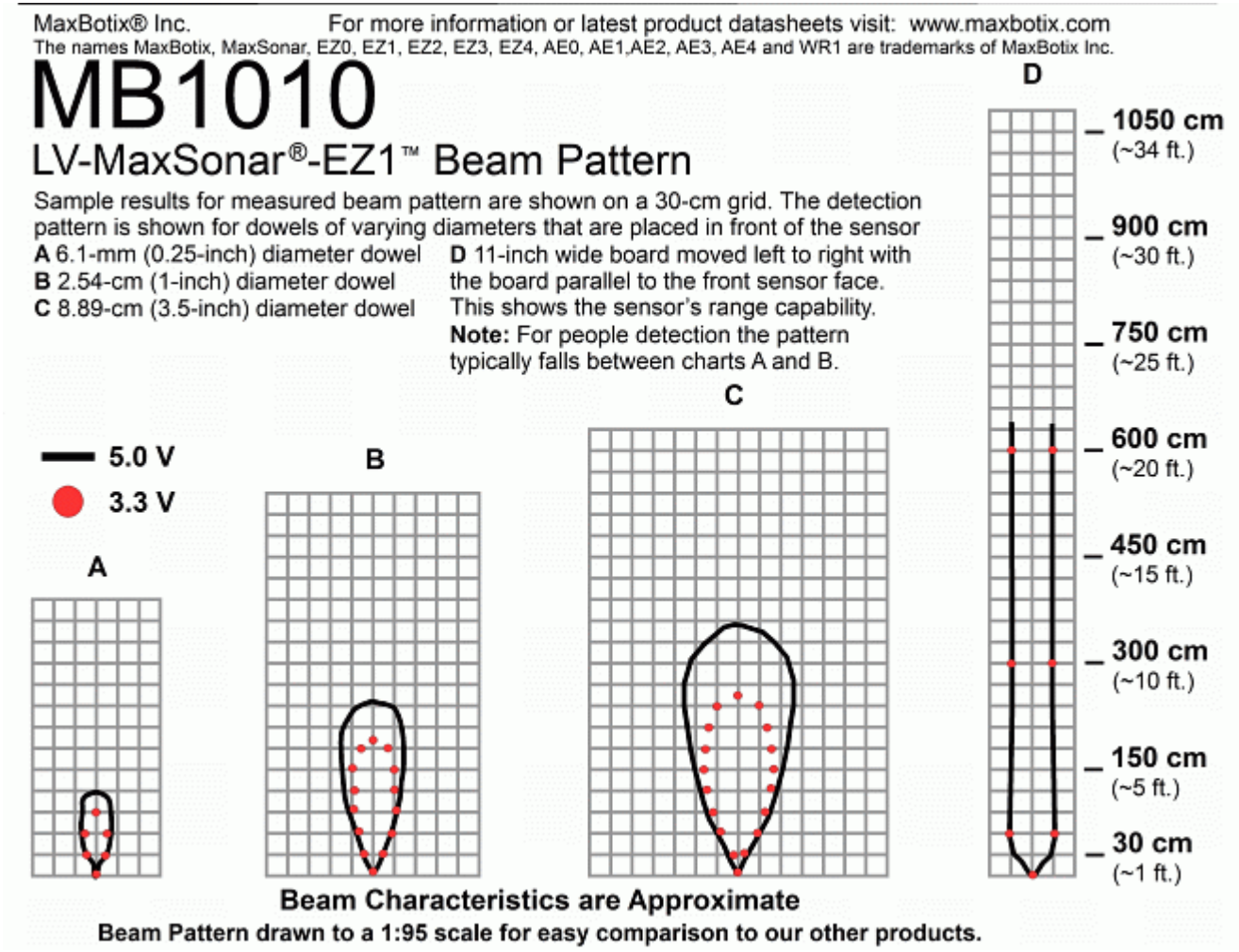
A very easy way to use just one MaxSonar-EZ1 for ranging is shown in the circuit below. Just solder wires from the GND, +5V, & AN to your circuit. When connected as shown, the MaxSonar-EZ1 continuously updates the analog voltage output with 10mV representing 1-inch. Using the analog output allows one to read the voltage (proportional to range) anytime.



***Do not reverse voltage polarity!** (May damage the MaxSonar-EZ1)*

http://www.maxbotix.com/performance.htm

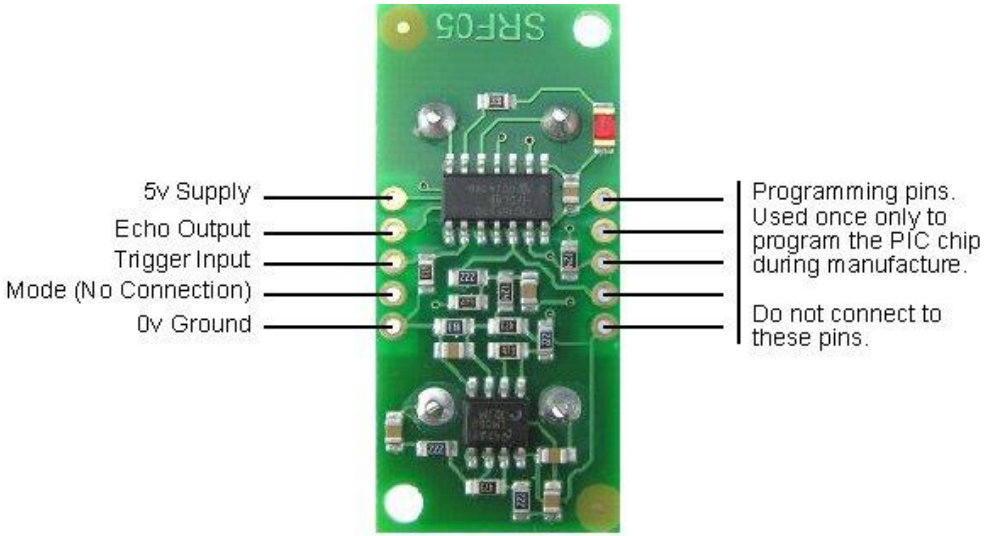
http://www.maxbotix.com/MaxSonar-EZ1__FAQ.html



http://www.maxbotix.com/performance.htm

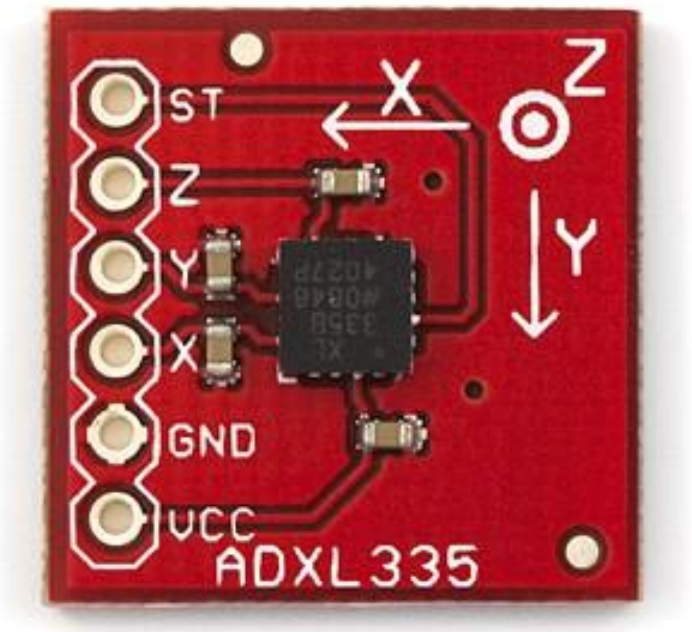
http://www.maxbotix.com/MaxSonar-EZ1__FAQ.html

Conectar un sensor ultrasonidos PARALLAX y SRF04



Connections for 2-pin Trigger/Echo Mode (SRF04 compatible)

Conectar un sensor acelerómetro



http://www.sparkfun.com/products/9269

Ejemplo:
http://www.youtube.com/watch?v=_ifAWRAdqNg&feature=fvwrel