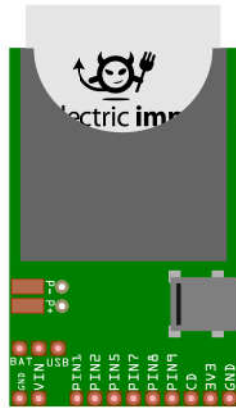


Wire color legend
 Black - Gnd
 Red - +5VDC
 Yellow - Trigger
 Blue - Echo
 Orange - Relay
 Wires shown here as if on component side

RELAY
 3-pin female-right-angle-header with sockets facing out



April breakout board
 12-pin male-straight-header soldered with pins on bottom side

Electric Imp April Breakout-1

12-pin female-straight header with sockets on component side pin 3 blocked

April breakout board
 Pin Assignments
 1 - Gnd
 2 - +5VDC out
 3 - no pin
 4 - GPIO 1 - Trigger
 5 - GPIO 2 local Echo
 6 - GPIO 5 remote Echo
 7 - GPIO 7 local Relay
 8 - GPIO 8 remote Relay
 9 - GPIO 9 - no connection
 10 - Card detect - no connection
 11- 3VC - no connection
 12 - Gnd

Perfboard 24 x 10

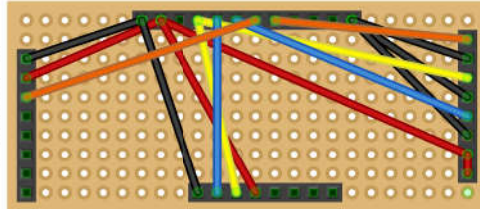
12-Header-1

RJ45-1



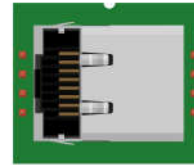
Relay-1

3-Header-1



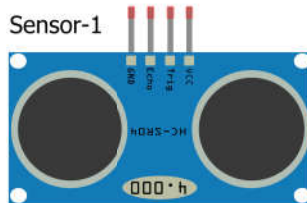
4-header-1

8-Header-1



RJ45 Breakout
 8-pin male-straight header pins on bottom side

ULTRASONIC SENSOR
 4-pin female-right-angle-header with sockets facing out



Sensor-1

RJ45 header
 8-pin female-straight header with sockets on component side

RJ45 pinout
 1 - Remote Relay
 2 - Gnd
 3 - remote Trigger
 4 - Gnd
 5 - remote Echo
 6 - Gnd
 7 - +5VDC
 8 - +5VDC

Assume straight-thru cable, no-crossover

Jumper for board 2
 Gnd - pin 1 to pin 12
 Vcc - no connection
 Trigger - no connection
 Echo - pin 5 to pin 6
 Relay - pin 7 to pin 8
 remove pin 3 as key



Bd 2 Jumper-1