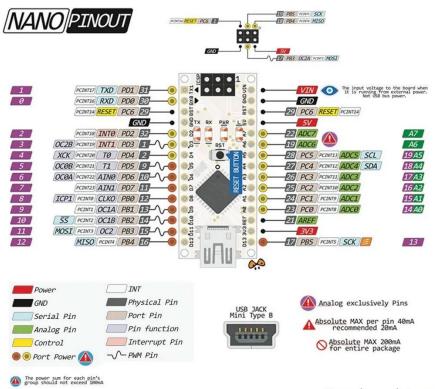


Descubrearduino.com



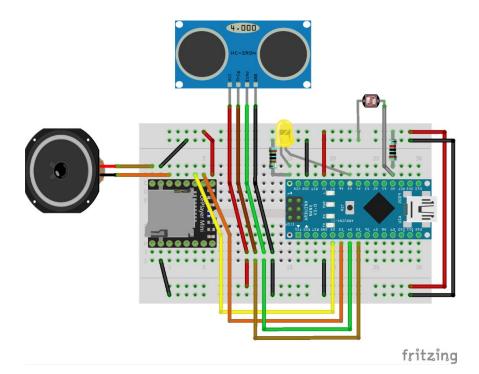
Descubrearduino.com

LED Current Limiting Resistor:

 $V_{Resistor} = V_{Supply} - V_{F_LED}$ \rightarrow $V_{Resistor} = [x R] \rightarrow [R = V_{Resistor} \div]$

See datasheet or guess: I \rightarrow 3 mA, $V_{F_red} = 1.9 \text{ V}$; $V_{F_yel/ora} = 2.0 \text{ V}$; $V_{F_grn} = 2.1 \text{ V}$; $V_{F_blu/whi} = 3.4 \text{ V}$;

Example: 5 (V_{Supply}) – 2.0 (V_F) = 3 ($V_{Resistor}$) and R = 3 ÷ 0.003 = 1 k Ω



LED Current Limiting Resistor:

 $V_{Resistor} = V_{Supply} - V_{F_LED}$ \rightarrow $V_{Resistor} = [x R] \rightarrow [R = V_{Resistor} \div []$

See datasheet or guess: $I \rightarrow 3$ mA, $V_{F_red} = 1.9$ V; $V_{F_yel/ora} = 2.0$ V; $V_{F_grn} = 2.1$ V; $V_{F_blu/whi} = 3.4$ V; Example: $5 (V_{Supply}) - 2.0 (V_F) = 3 (V_{Resistor})$ and $R = 3 \div 0.003 = 1$ k Ω

