



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



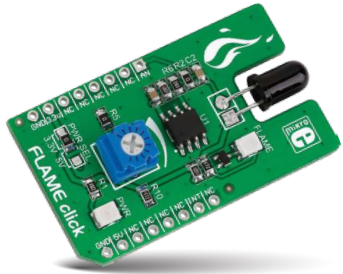
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

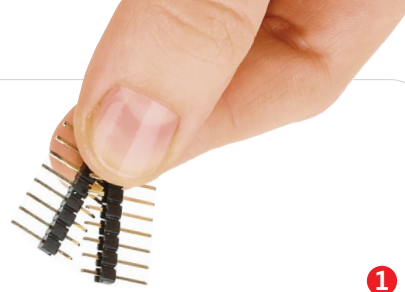




FLAME click™

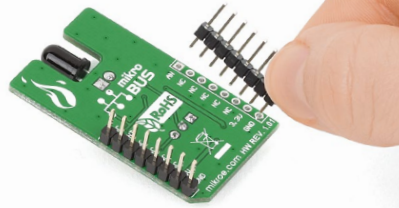
2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



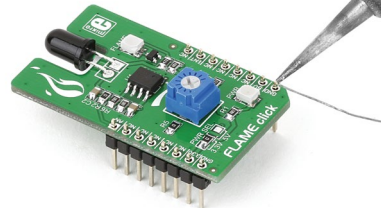
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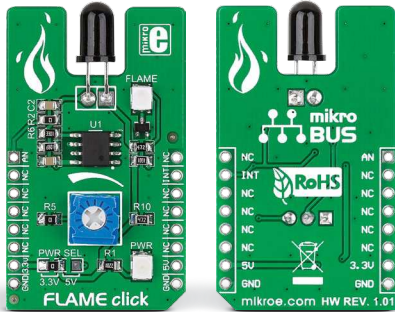


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3

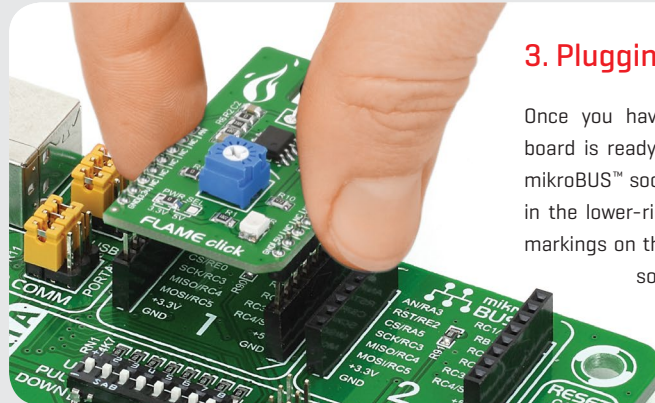


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



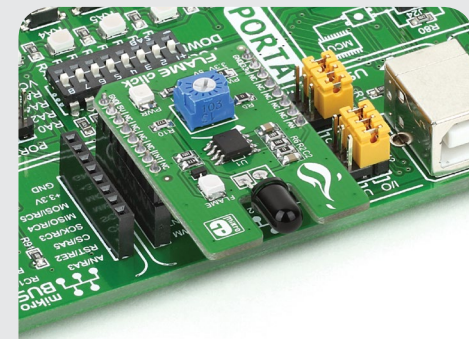
1. Introduction

Flame click™ is a fire detection solution. It carries a **PT334-6B NPN** silicon phototransistor that's covered in black epoxy and therefore sensitive only to infrared light. A **potentiometer** lets you calibrate the sensor for its specific environment. The board communicates with the target board microcontroller through the mikroBUS™ AN and INT pins. It can use both a 3.3V or a 5V power supply.



3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board



4. Essential features

Flame click™ can operate in two ways. It can output a continuous analog signal from the phototransistor, or send an interrupt to the target board MCU. The onboard potentiometer allows you to **set the exact threshold** that will **trigger the interrupt**. This will require some fine tuning as the **phototransistor will be sensitive to the surrounding thermal radiation**. Properly calibrated, flame click™ can be used in a variety of safety applications. Fire sensors based on phototransistors have a faster reaction time compared to smoke or heat detectors.

click™
BOARD

www.mikroe.com

FLAME click™ manual
ver 1.01



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