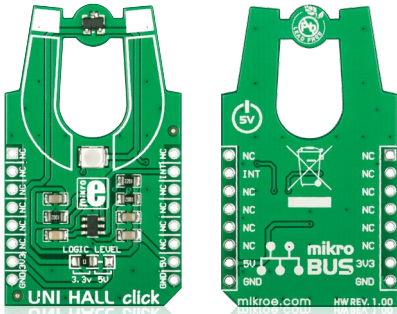


## UNI HALL click™

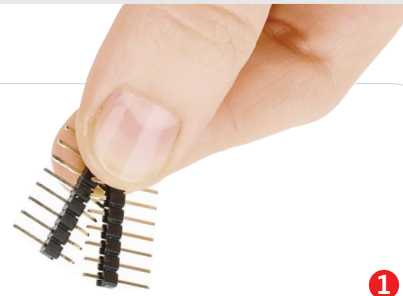
### 1. Introduction



UNI HALL click™ is a simple solution for adding an unipolar Hall switch to your design. It carries the Melexis US5881 unipolar Hall-effect switch and a 74LVC1T45 single bit, dual supply translating transceiver. UNI HALL click™ communicates with the target board through the **mikroBUS™** INT line. The board is designed to use either a 3.3V or 5V power supply (which also defines the logic level of the output signal).

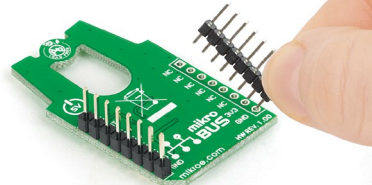
### 2. Soldering the headers

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.



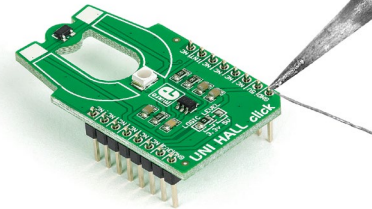
1

2

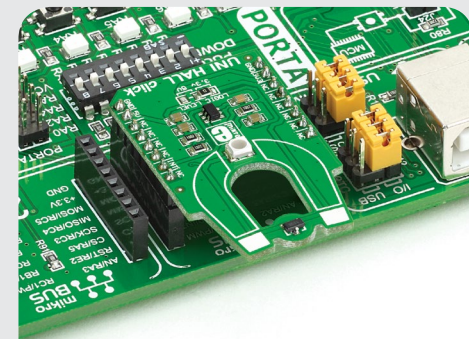


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

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.

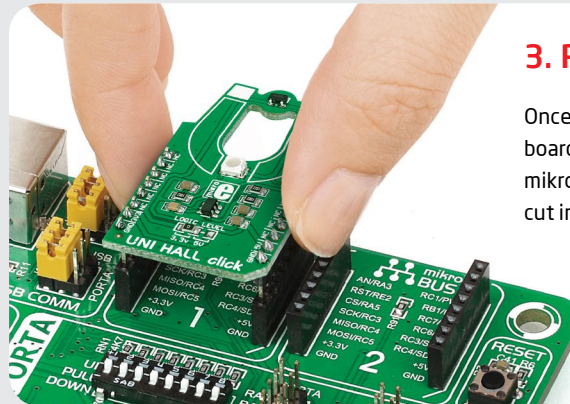


### 4. Essential features

The unipolar Hall effect sensor on UNI HALL click™ is sensitive to north pole magnetic fields—when exposed to such a field, it outputs a LOW logic level. Otherwise the output is a HIGH logic level. In its simplest application, UNI HALL click™ can be employed as part of a long lasting contactless proximity switch. However, magnets can be employed in various ways to infer the speed, position, or other properties of an object; there are countless ways to utilize UNI HALL click™ in your design.

### 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 all the way into the socket.



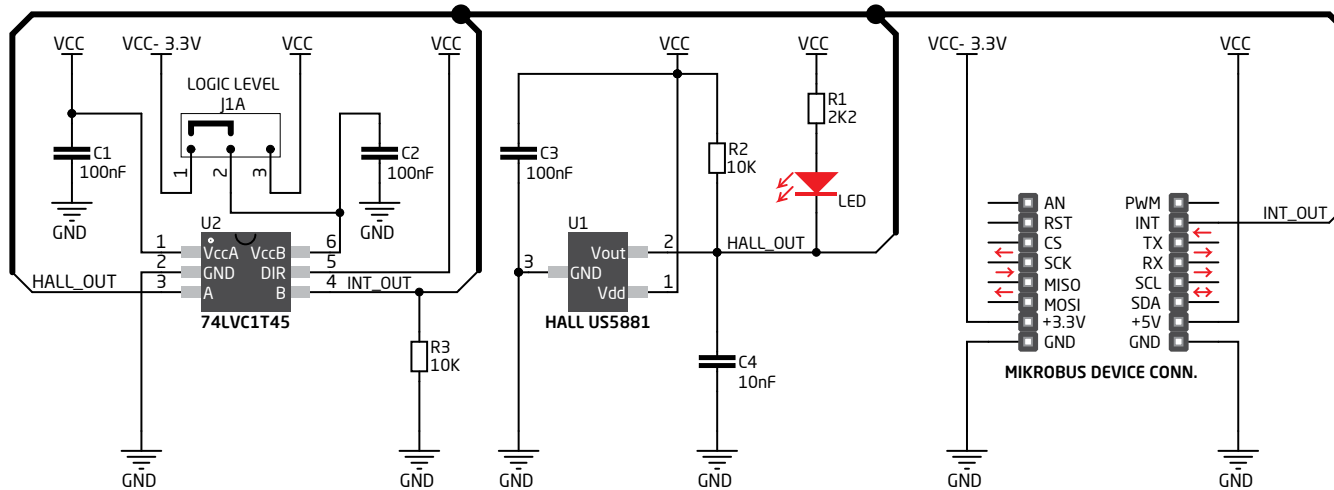
click™  
BOARD  
[www.mikroe.com](http://www.mikroe.com)

UNI HALL click™ manual  
ver. 1.00



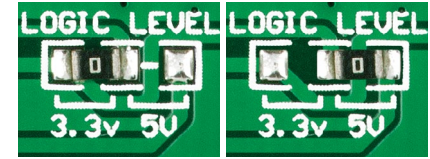
0 10000 026939

## 5. UNI HALL click™ board schematic



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## 6. SMD jumper



To switch between 3.3V and 5V power supplies, use the on-board zero-ohm SMD jumper. By default it's soldered in the 3.3V position.

## 7. Code examples

Once you have done all the necessary preparations, it's time to get your click™ board up and running. We have provided examples for mikroC™, mikroBasic™ and mikroPascal™ compilers on our **Libstock** website. Just download them and you are ready to start.



## 8. Support

MikroElektronika offers **free tech support** ([www.mikroe.com/support](http://www.mikroe.com/support)) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!