

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.

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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. Othewise 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.

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UNI HALL click[®] manual

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Turn the board upside down so that

the bottom side is facing you upwards.

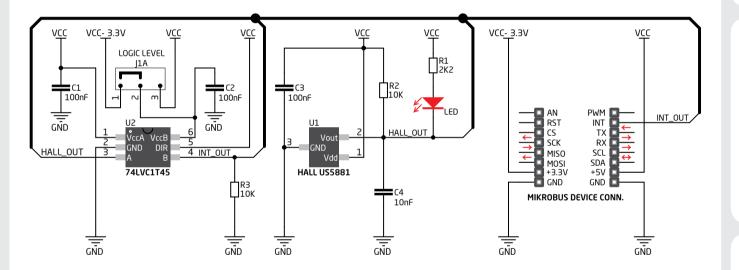
Place shorter pins of the header into the

appropriate soldering pads.

3. Plugging the board in

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

5. UNI HALL click^m board schematic



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) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!



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