

Introduction:

SIKTEC-MDS is a high-quality Multi-Directional Switch development module. The module is designed to be used with any MCU and most of the popular dev boards. The switch features 3 states, 2 Directions and a push button. The module is easily integrated by the open source SIKTEC-MDSwitch library that provides excellent examples that were tested extensively on several physical boards. The module supports the use of an optional Interrupt based triggering and operates on a variety of voltages. The module has a 2.54 pitch Breadboard compatible header. Using the dedicated library will get you started quickly – scan the QR code to get the started.

The MDS Module features:

- High quality 3 States Multi-Directional - SLLB310400 ALPS / K1-1502SA-01.
- 3.3/5V Logic tolerant.
- Debounced with optional Interrupt trigger.
- 2.54 Breadboard compatible.
- Arduino Lib Manager & PlatformIO Libraries - Robust and well documented library and examples.
- 2 Mounting Holes (2.2mm - M2).
- Smooth key/button captures - Debouncing and 'noise' is taking care of by the library.
- Dynamic Enable / Disable states.
- Modes - You can use "modes" which stores Event -> Call-backs scheme to easily change the switch functionality.
- Well documented code

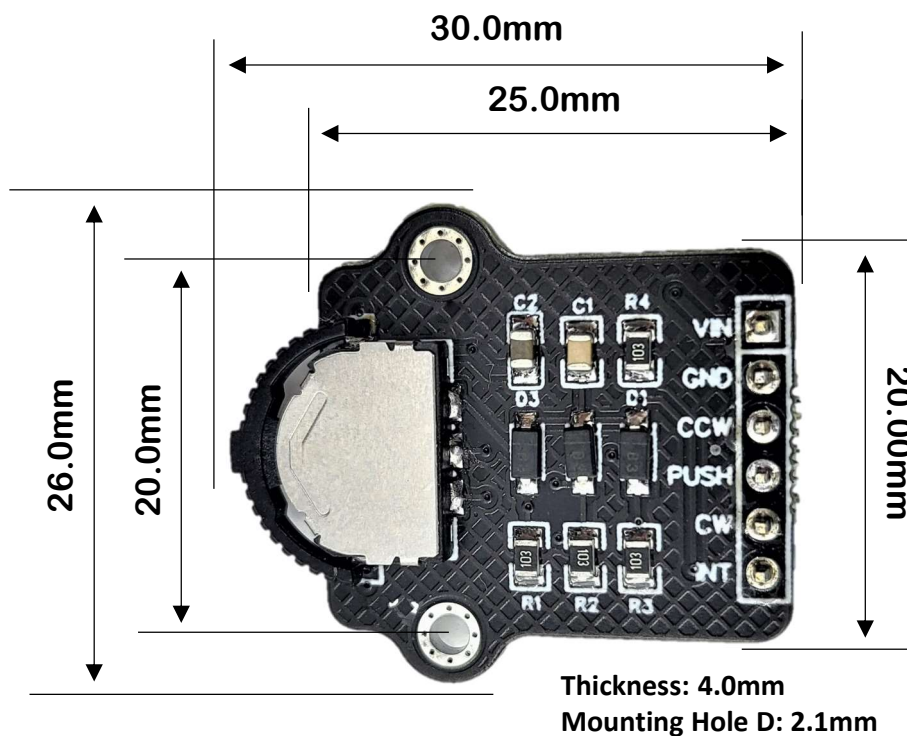
The module supports the SIKTEC-MDSwitch Libraries and Example codes – All examples can be downloaded from GitHub: <https://github.com/siktec-lab/SIKTEC-MDSwitch>. Or installed using the Arduino / PlatformIO IDE Library Manager.

Wiring:

BORAD	Pins (int, push, ccw, cw)	More Info
ESP32	32, 24, 36, 39	INPUT only pins
UNO	3, 4, 5, 6	Only 2,3 support interrupts
NANO	3, 4, 5, 6	Only 2,3 support interrupts
MEGA	3, 4, 5, 6	
LEONARDO	3, 4, 5, 6	
DUE	3, 4, 5, 6	*3.3v logic

SIKTEC-MDS Module Dimensions:

*All Dimension should be considered with an error margin of 0.3mm.



SIKTEC-MDS Switch Dimensions (Model: K1-1502SA-01):

