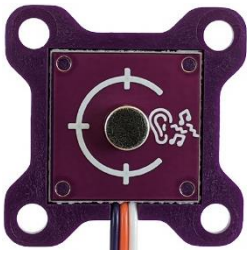


# Noise sensor bit datasheet



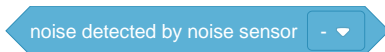
The noise sensor bit is an input bit that detects sudden and loud sounds.

When a loud sound is detected the red LED on the noise sensor bit briefly turns on. During this brief time the noise sensor bit also sends the hub a signal that a loud sound has been detected.

Use in ports	Stencil guide	Bit type	Block category
0 - 7	⑤	Input	Sensing

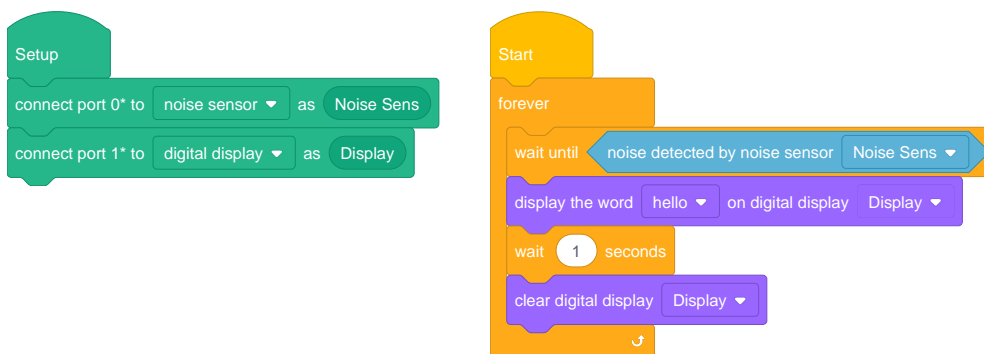
## Programming blocks

The programming block for the noise sensor bit is a sensing block so it must be used with control blocks, such as the 'wait until<>' block. Note that the signal from the noise sensor bit is brief, so for most programs the 'wait until<>' block is the best choice. Using an 'if<>then' block may not give a consistent outcome.



## Example program

This example program will wait until a noise is heard or someone saying 'hello' and then display the word 'hello' for 1 second on the digital display bit.



## In the real world

One of the most popular inventions using a sound or noise sensor has been clap controlled lights. Clap once for on, and twice for off.

Using a noise sensor to detect claps allows an invention to be controlled remotely without having to touch a switch or button

