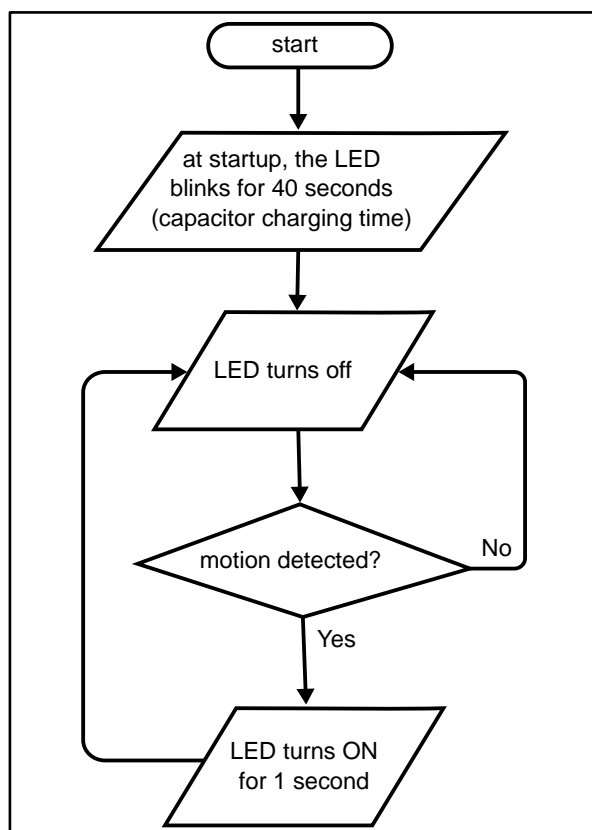


Software for the STEVAL-IDI009V1 evaluation board

Data brief



Description

This firmware takes the signal generated by a passive infrared (PIR) sensor on the STEVAL-IDI009V1 evaluation board to trigger the user LED on the NUCLEO-L053R8 development board.

Common applications include home automation systems, where human detection by the sensor triggers alarms and room lighting.

The board embeds a TSU102 operational amplifier, which consumes only 1 μA , rendering it highly suitable for battery powered applications like LED lighting with embedded motion detection.

The entire application consumes only 24 μA when there is no detection.

Features

- Based on passive infrared (PIR) sensor
- Triggers a LED when motion is detected
- Firmware for the NUCLEO-L053R8 development board using the IAR development environment
- Free, user-friendly license terms

1 Revision history

Table 1: Document revision history

Date	Version	Changes
29-Nov-2016	1	Initial release.
28-Feb-2017	2	Updated features and description on the cover page.

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