

Evaluation kit composed by STHS34PF80 industrial board and standard DIL24 adapter



Features

- User friendly [STHS34PF80](#) board
- Complete [STHS34PF80](#) pin-out for a standard DIL24 socket
- Fully compatible with the [STEVAL-MKI109V3](#) motherboard
- RoHS compliant

Description

The [STEVAL-MKI231KA](#) evaluation kit is made up of an ad hoc PCB, mounting the [STHS34PF80](#) low-power.

The [STHS34PF80](#) is a high-sensitivity infrared sensor for presence and motion detection, which is connected through flat cable to a generic adapter board ([STEVAL-MKIGIBV5](#)) to make it compatible with the [STEVAL-MKI109V3](#).

An ad hoc plastic holder with a Fresnel lens has been provided into the kit to verify best performances of the device.

The [STEVAL-MKIGIBV5](#) can be plugged into a standard DIL 24 socket. The kit provides the complete [STHS34PF80](#) pin-out and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

This adapter is supported by the [STEVAL-MKI109V3](#) motherboard which includes a high performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable graphical user interface (Unico GUI), or dedicated software routines for customized applications.

Product summary	
Evaluation kit composed by STHS34PF80 industrial board and standard DIL24 adapter	STEVAL-MKI231KA
Low-power, high-sensitivity infrared (IR) sensor for presence and motion detection	STHS34PF80
Professional MEMS tool: ST MEMS adapters motherboard based on the STM32F401VE and compatible with all ST MEMS adapters	STEVAL-MKI109V3
Motion MEMS and microphone MEMS expansion board for STM32 Nucleo	X-NUCLEO-IKS02A1
Applications	Presence Sensing

1 Schematic diagrams

Figure 1. STEVAL-MKIGIBV5 circuit schematic

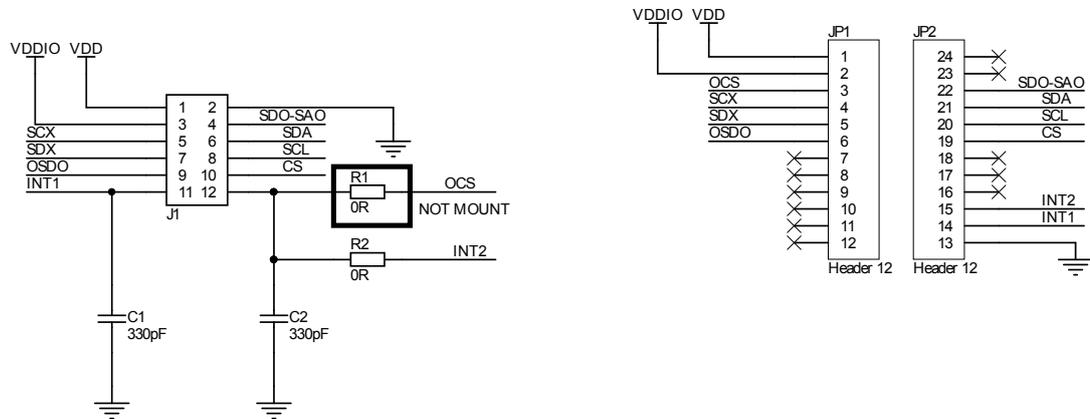
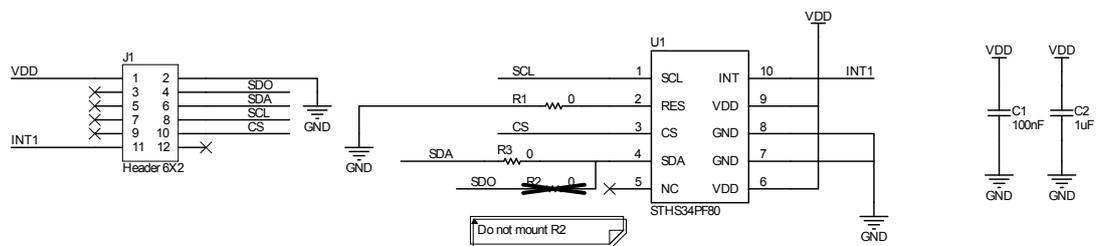


Figure 2. STEVAL-MKI231A circuit schematic



2 Kit versions

Table 1. STEVAL-MKI231KA kit versions

Finished good	Schematic diagrams	Bill of materials
STEVAL\$MKI231KAA ⁽¹⁾	STEVAL\$MKI231KAA schematic diagrams	STEVAL\$MKI231KAA bill of materials

1. This code identifies the STEVAL-MKI231KA evaluation kit first version. The kit consists of a STEVAL-MKI231A whose version is identified by the code STEVAL\$MKI231AA and a STEVAL-MKIGIBV5 whose version is identified by the code STEVAL\$MKIGIBV5A

Revision history

Table 2. Document revision history

Date	Revision	Changes
15-Jun-2023	1	Initial release.

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