IR Sense 4 Click

PID: MIKROE-5952

IR Sense 4 Click is a compact add-on board that can be used in short-range IR sensing applications. This board features the STHS34PF80, a low-power high-sensitivity infrared (IR) sensor from STMicroelectronics. It is a sensor for presence and motion detection and can reach up to 4m without a lens for object measuring. The sensor can detect stationary objects and distinguish them from moving objects. This Click board™ makes the perfect solution for the development of presence and proximity sensing applications, alarm and security systems, home automation, smart lighting, and more.

IR Sense 4 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Specifications

Type	Temperature & humidity
Applications	Can be used for the development of presence and proximity sensing applications, alarm and security systems, home automation, smart lighting, and more
On-board modules	STHS34PF80 - low-power high-sensitivity infrared (IR) sensor from STMicroelectronics
Key Features	A high-sensitivity infrared presence and motion detection sensor, it can reach up to 4m, integrated silicone IR filter, is capable of detecting stationary objects, capable of distinguishing stationary and moving objects, is factory calibrated, has low power consumption, and more
Interface	I2C,SPI
ClickID	Yes
Compatibility	mikroBUS™
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

IR Sense 4 click example on Libstock

IR Sense 4 click 2D and 3D files

STHS34PF80 datasheet

IR Sense 4 Click schematic