

MOTION DETECTOR

PIR sensor



The SBC-PIR is a powerful PIR motion sensor that has been specially developed for use in embedded systems, single-board computers and microcontroller projects. The sensor reliably detects movements in a detection range of around 120 degrees and provides a clean, digital output signal that can be analysed directly by common systems such as Raspberry Pi, Arduino or ESP32.

Thanks to its flexible voltage range of 3.3 to 5 volts, it can be connected to a wide variety of systems without additional level converters. Typical areas of application include intelligent lighting control, monitoring and alarm systems, presence detectors and smart home automation solutions. With its reliable functionality and simple integration, the SBC-PIR is the perfect choice for versatile and efficient motion detector applications.

MAIN FEATURES

Sensor type	PIR motion sensor
Functional principle	Pyroelectric infrared rays
Special features	Steplessly adjustable range

SPECIFICATIONS

Supply voltage	3 V - 5 V
Detector chip on module	BIS0001
Detection angle	120°
Detection range	maximum 6 m (3 m typical)
Operating temperature	-10°C to 70°C
Steplessly variable detection range via potentiometer	Setting the sensitivity control on the module board using a Phillips screwdriver

FURTHER INFORMATION

Scope of delivery	1x SBC-PIR
Dimensions	21 x 40 x 19 mm
Weight	6 g
Item number	SBC-PIR
EAN	4250236820859
Customs tariff number	8473302000