

## Motion 3 Click



PID: MIKROE-4049

**Motion 3 Click** is a Click board™ based on [EKMC1606112](#), PIR motion sensor from [Panasonic Corporation](#) that's used as human motion detector. Also featured on Motion 3 Click board is TLP241A photorelay from Toshiba that is used to provide a reinforced galvanic isolation for the external signals used to drive some external high power electronic equipment when motion is detected. It's allowing up to 40V between the SSR contacts in OFF state, and currents up to 2A while in ON state, thanks to a very low ON-state resistance.

Motion 3 Click board™ is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
ISO 14001: 2015 certification of environmental management system.  
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Motion
Applications	Alarm systems, light switch controllers, automatic doors and similar systems where human presence needs to be detected.
On-board modules	EKMC1606112 the PIR motion sensor
Key Features	128 detection zones, wide detection range and maximum range between 12 and 17 m
Interface	GPIO
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click Boards™](#)

## Downloads

[Motion 3 click example on Libstock](#)
[EKMC160611 datasheet](#)
[Motion 3 click schematic](#)
[Motion 3 click 2D and 3D files](#)

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