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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 bord 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.

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™
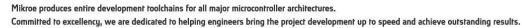
mikroSDK

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