

Proximity 12 Click



PID: MIKROE-3995

Proximity 12 Click is a compact add-on board that contains a high-performance light and proximity sensing solution. This board features the TMD3719, an optical sensor that integrates ambient light sensing, proximity detection, and flicker detection sensing from AMS-AG. This I2C configurable sensor has six concurrent ambient light sensing channels and a proximity function that synchronizes IR emission and detection to sense nearby objects. On-chip flicker detection processing removes the processing overhead from the central application processor, reducing latency in the flicker-detection results, enabling comprehensive detection of ambient light flicker frequency to remove unwanted artifacts. This Click board™ is suitable for consumer and industrial applications such as brightness and color management, flicker-immune operations, and many more.

Proximity 12 Click 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	Proximity
Applications	Can be used for consumer and industrial applications such as brightness and color management, flicker-immune operations, and many more
On-board modules	TMD3719, an optical sensor that integrates ambient light sensing, proximity detection, and flicker detection sensing from AMS-AG
Key Features	Low power consumption, synchronized proximity function, high sensitivity, improved lux accuracy, RGB sensing, flicker detection, and more
Interface	I2C
ClickID	No
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

[Proximity 12 click example on Libstock](#)

[BH18PB1WHEV datasheet](#)

[TMD3719 datasheet](#)

[Proximity 12 click 2D and 3D files](#)

[Proximity 12 click schematic](#)

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