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.

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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

BH18PB1WHFV datasheet

TMD3719 datasheet

Proximity 12 click 2D and 3D files

Proximity 12 click schematic