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Proximity 18 Click





PID: MIKROE-5300

Proximity 18 Click is a compact add-on board that provides a close-range proximity sensing solution. This board features the VCNL3036X01, a high-resolution digital proximity sensor from <u>Vishay Semiconductors</u>. Besides the proximity sensing element, the VCNL3036X01 also integrates a mux and a driver for three external LEDs, which are located near the chip on the board, photodiodes, amplifiers, and analog to digital conversion circuits into a single CMOS chip. Proximity 18 Click provides absolute distance measurement, whatever the target color and reflectance, and is accurate up to 50cm. This Click board™ is suitable for proximity/optical switch applications for consumer, computing, automotive, and industrial purposes.

Proximity 18 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This <u>Click board™</u> 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.





health and safety management system.



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Specifications

Туре	Proximity
Applications	Can be used for proximity/optical switch applications for consumer, computing, automotive, and industrial purposes
On-board modules	VCNL3036X01 - close-range digital proximity sensor from Vishay Semiconductors
Key Features	Fast and accurate distance ranging sensor, fully integrated module, low-power consumption, I2C interface, programmable interrupt, up to 500mm ranging, various basic proximity function settings, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Proximity 18 click example on Libstock

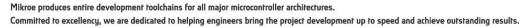
VSMD66694 datasheet

VCNL3036X01 datasheet

VLMTG1300 datasheet

Proximity 18 click 2D and 3D files

Proximity 18 click schematic



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