



## IR Proximity Sensor Module

The OSEPP IR Proximity Sensor Module measures distances. It utilizes the Sharp GP2Y0D805Z0F measuring sensor unit which is composed of an integrated combination of photo diode, infrared emitting diode and a signal processor. The digital value from the proximity sensor is read out on the I<sup>2</sup>C bus.

The module uses the I<sup>2</sup>C interface for data communication. The I<sup>2</sup>C lines are packaged with the power and ground lines into a modular connector, which allows easy plug and play operation. There are two connectors on the module to enable daisy chaining of multiple I<sup>2</sup>C devices together. This sensor module is ideal for designs that need to detect objects within a certain range or designs that need to avoid obstacles. It can also be used as a touchless switch.

- Plug and play with OSEPP I<sup>2</sup>C Expansion Shield
- Detection range of 0.5 – 5.0 cm
- Supports I<sup>2</sup>C interfacing with 4 programmable 7-bit address (0x20, 0x22, 0x24, 0x26) to allow up to 4 OSEPP IR Proximity Sensor module to exist on the same I<sup>2</sup>C bus
- Provides pass-through connector to support daisy chaining of multiple sensors from the OSEPP Sensor Module family
- Provides 0.1" breakout points for power and I<sup>2</sup>C interface pins access



### Product Info

Stock Code	PROX-01
Description	IR Proximity
Package Size	1

