

Optical Interface as Proximity, Ambient Light and Heart Rate Sensor

***Under Development**

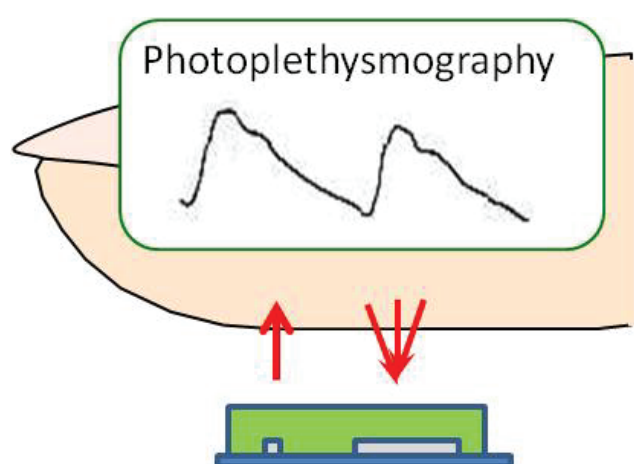
Emitter and Receiver with Digital Output in 3.05 x 2.1 x 1.1mm Single Miniature Package

Proximity, ambient light, heart rate sensing and low current consumption



Features

- Variation of skin light
- Absorbance based on the hemoglobin concentration



Specifications

- Package Size: 3.05 × 2.1 × t1.1mm
- Operating Temperature: -30°C ~ +85°C
- Supply Voltage: 3.3V
- Proximity Detection: max. 70mm
- Ambient Light Range: 0.5klx ~ 128klx
- Current Consumption: 80uA @ Proximity
- ALS (Ambient Light Sensing) Angle: ±45° @ 50%

Applications

- Act as a motion sensor
- Multiple-detection without physical screen contact



Screen flipping is possible even with wet hand



Proximity and Light sensor in a single package