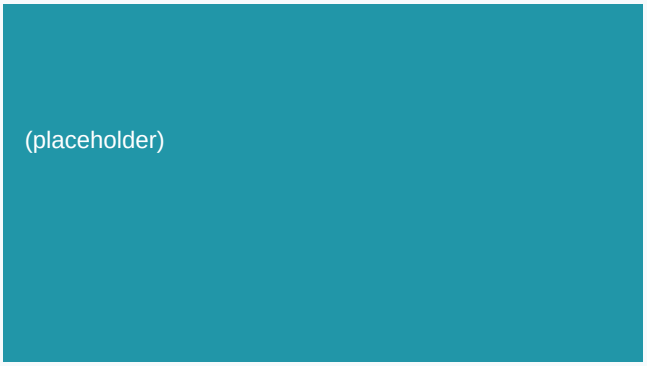
MAX30102 Pulse Oximeter Heart Rate Sensor Module

Slug: max30102-pulse-oximeter-heart-rate-sensor-module



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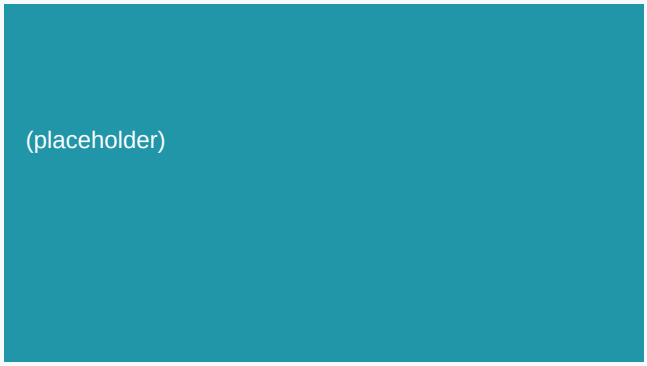

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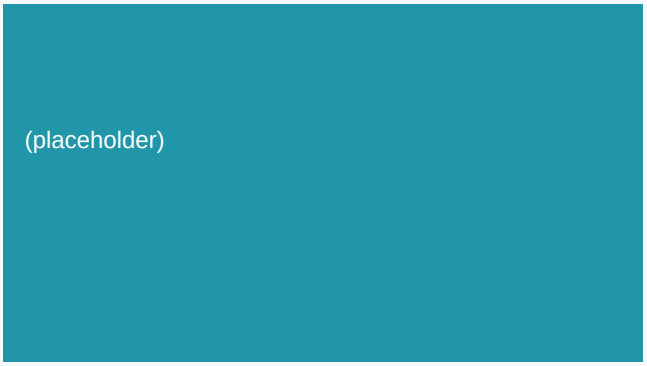
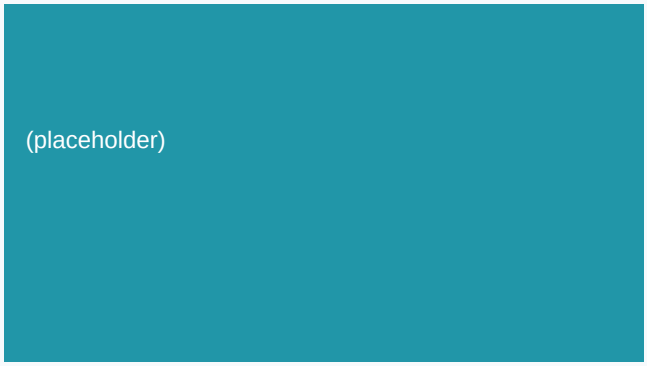


DETAIL



PINOUT

TECHNICAL SPECIFICATIONS & SUMMARY

[Proximity Sensor] MAX30102 is a sensor that combines a pulse oximeter and a heart rate monitor. It's an optical sensor that measures the absorbance of pulsating blood through a photodetector after emitting two wavelengths of light from two LEDs - a red and an infrared one. This particular LED colour combination is designed to allow data to be read with the tip of one's finger. It is fully configurable through software registers and the digital output data is stored in a 16-deep FIFO within the device. It has an I2C digital interface to communicate with a host microcontroller. The pulse oximetry subsystem in MAX30102 consists of ambient light cancellation (ALC), 16-bit sigma-delta ADC, and a proprietary discrete-time filter. It has an ultra-low-power operation which makes it ideal for battery-operated systems. MAX30100 operates on a supply in the range of 1.8 to 3.3V. It can be used in wearable devices, fitness assistant devices, medical monitoring devices, etc. This sensor works on 3.3V Devices directly. You can connect it to 3.3V devices like ESP8266, ESP32, etc. directly. To use it with

UNIT PRICE (EX. GST)
Rs. 149

WITH 18% GST
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