



Name: **Ambient Light Sensor - TEMT6000**  
 Code: **MR003-008.1**

This ambient light sensor carries the TEMT6000 phototransistor. The phototransistor is connected to a pull-down resistor to form a voltage divider that produces an analog voltage output between 0V and +5V as a function of the light detected in the visible spectrum. Lower output voltage is an indication of less light detected.

The LED current-limiting resistor is set to deliver approximately 20mA. The current requirement can be met by some microcontroller I/O lines, allowing the sensor to be powered up and down through an I/O line to conserve power.

### CONNECTIONS

OUT	Analog output
GND	Ground
VCC	Supply power (+5V)

*Tab.1 – Connections*

### SPECIFICATIONS

Supply voltage	+5V
Supply current	0.5mA
Operating temperature	-40 / +85°C
Interface	Analog
Dimensions	0.35" x 0.35" (8.9 x 8.9 mm)
Weight	0.01 oz (0.3 g)

*Tab.2 - Specifications*

