

LED Alert Sensor

Equilibrium Point IOT, Inc.

1.0 FEATURES

- Integrated on the EQP IOT platform, powered by AWS
- Monitors the LED status of various industrial equipment
- Sends status and alerts to EQP IOT platform

2.0 GENERAL DESCRIPTION

The EQP LED Alert Sensor is a simple, multi purpose sensor that monitors the LED status of a wide variety of industrial equipment. It can be powered by a USB cable or a wide range DC supply. A minimally invasive tap is applied to the machine’s LED signal. The sensor monitors the on/ off state of the LED and sends alerts when the LED changes state. This can drive powerful business metrics such as equipment usage and frequency. It can also alert critical business failures such as equipment failure and required maintenance. For example, the sensor will alert when a coin change machine is out of coins and needs refilling.

3.0 DEVICE CHARACTERISTICS

Absolute Maximum Ratings (†)

Vcc (USB Supply)	6.5V
Storage Temperature.....	-40°C to 80°C
Operating Temperature	-10°C to 60°C
ESD Protection.....	>2kV
Drop Height	2m
Relative Humidity	Dew Point

† NOTICE: Stresses above those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational listings of this specification is not implied. Exposure to maximum rating conditions for extended periods may affect device reliability

Table 1-1: Operating Characteristics

Sym	Characteristic	Min.	Typ.	Max.	Units	Conditions
Vcc	Input Voltage	4.5	5	6.5	V	USB Supply
		6.5	-	36	V	DC Wire Supply
Is	Standby Current	-	80	-	mA	-
It	Transmit Current	-	-	160	mA	-
Pd	Power Dissipation	-	-	1	W	-
Vi	Input Voltage	17.9	-	25.9	V	Detection Range*

* Custom voltage detection range available upon request