# **BB-WCD-LSSCBL**



# Introduction

The Wzzard<sup>™</sup> light sensor, Model BB-WCD-LSSCBL, makes it fast and easy to get measurable data from your stack lights. Just peel and stick the sensor strip onto your stack light. (Cut away any sensors that you don't need.) Plug the cable into a wireless Wzzard stack light sensing node to transparently capture and network-enable digital data (nodes, gateways, kits sold separately).

### **Wzzard Mesh Sensor Network**

The Wzzard mesh sensing network is a non-intrusive overlay that doesn't interfere with your existing network, stack lights nor disrupt live operations. Remove, rearrange or add up to one hundred nodes, with a variety of sensors, at any time.

# **Real-time Management**

Get other tasks done while Wzzard sensors keep an eye on your stack lights and factory floor. Data is collected digitally for real-time management – no need to keep an eye on or manually record stack light activity.

# **Operations Visibility**

Digitized stack light data allows process and quality monitoring, generates email or SMS alerts, reduces downtime, replaces outdated data collection methods and frees up manpower.

Data can be published to a local web interface or forwarded to third-party software applications such as Azure, AWS, OSI PI, Kepware, Ignition or many others using MQTT.

# **Data-driven Decision Making**

The most important upgrade to Industry 4.0 is data-driven dashboards that integrate OEE and MES to optimize equipment use and drive more informed management decisions.

# **Stack Light Monitoring Starter Kit**

Everything you need to get started – easily expandable to more stack lights later.

#### Model# BB-WSK-SLM-2

- 1 Wzzard wireless stack light node (Model# BB-WCD1H3001HP100)
- 1 Stack Light Sensor Strip w/Cable (Model# BB-WCD-LSSCBL)
- 1 SmartSwarm 342 Gateway supports up to 100 nodes (Model# BB-SG0000525-42)



Stack light sensing, monitoring & reporting application



# **ADVANTECH**

All product specifications are subject to change without notice.

# Stack Light Sensor Strip & Cable with 3 photo-transistors

# Features

Photo transistors convert stack lights into measurable, digital data No need to keep an eye or physical presence on the factory floor Increase productivity and efficiency, reduce downtime, free up manpower Molex® connector with crimp terminal Non-intrusive, non-disruptive network overlay Aggressive, high temperature adhesive; removable at any time RoHS compliant

# **Ordering Information**

Model No.	Description
BB-WCD-LSSCBL	Light Sensor Strip & Cable with 3 Photo Transistors

#### Accessories – Sold Separately

BB-WCD1H3001HP100 - Wzzard Mesh Wireless 802.15.4e Sensor Node

- Commercial Stack Light Node for Light Sensing
- 3 Al, vBat Out, Internal Antenna

- Battery-powered, multi-year life.

- BB-SG0000525-42 SmartSwarm 342 Gateway – Asset Integration Gateway & Router, MESH wireless
- Configurable user business logic data processing & display engine
- Internet data inputs; outputs to MQTT email, SMS and more

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# **Specifications**

Serial Technology						
Circuit	PCB, FR4, 1 mm thick, ENIG plating					
Photo Sensor						
Photo Transistor	(3) NPN silicon photo transistor					
Sensitivity	Wide angle, visible spectrum					
Regulatory	RoHS, lead-free					
Photo Sensor – Absolute Maximum Ratings T <sub>A</sub> =25° C						
Parameter	Symbol	Value	Unit	Notice		
Collector-Emitter Voltage	Vceo	60	V	Iceo = 100µA		
Emitter-Collector Voltage	Veco	4	V	leco = 100µA		
Operating Temperature	Topr	-40 to +85	°C	-		
Storage Temperature	Tstg	-40 to +85	°C	-		
Mechanical						
Sensor strip, dimensions	18.42L x 0.64W cm (7.25L x 0.25W in) Dome emboss over photo-transistors, PCB, etc.					
Cable	Discrete wires soldered to back side of PCB, 26AWG stranded, 45.7 cm (18 in)					
Connector	(1) Molex® 513820600					
Connector Pins	(5) 561349000 pins					
Mounting Adhesive	3M 467, aggressive, high-temperature					

