

Verics™ CheckPoint Data Sheet



Twistlock Photocontroller socket mounted version

OVERVIEW

CheckPoints are nodes on a Verics™ wireless network used to monitor, diagnose, and control streetlights. The Verics™ network utilizes radio frequencies that do not require licensing. One CheckPoint monitors one lamp/ballast circuit and routes data back through the network to the nearest AccessPoint, which in turn communicates the data to a remote secure server. The end user accesses the data using an Internet web browser. Typical configurations allow an AccessPoint to effectively support a cluster of 400 to 500 CheckPoints.

The control functionality and data provided by the Verics™ network is used to enable improved lighting service levels and at the same time [a] reduce maintenance costs, [b] extend asset life and [c] lower energy consumption.

SPECIFICATIONS

Physical:

- Dimensions: approx. 5.5" diameter x 3" high
- Weight: 11 oz.
- Enclosure: designed to meet ANSI C136.10
- Surge protection: 300 joules
- Power consumption: average = 1.5 watts

Environment:

- Minus 40°C to plus 65°C at 96% relative humidity

Luminaire Diagnostics:

- PhotoController failure
- Cycling lamp
- Fixture malfunction (causing improper operation)

Luminaire types:

- Low pressure Sodium [LPS]
- High Pressure Sodium [HPS]
- Metal Halide
- CWA, Reactor, Regulated, and Auto ballasts

Reports:

- Hours of burntime
- Ignitions
- Faults [see 'diagnostics' above]
- Fixture Voltage
- Current drain
- Power

Control:

- Command individual or groups of lamps ON or OFF

CATALOG LOGIC: e.g. CPTL30900A

Product	Connection	Voltage	Frequency	Antenna	Options
CP= CheckPoint	TL= via twist lock photocell socket	3= 120- 277VAC	O9= 915 MHz	0= internal	0A= base model, gray
	EX= Hardwired external mounted				0B = base model black
					0G = base model green

HOW TO SPECIFY

Each luminaire shall be supplied with a 'CheckPoint' monitoring device which shall consist of an FCC approved unlicensed frequency band wireless transceiver with internal antenna and integral monitoring and diagnostics capability. The housing will be formed from injection molded thermoplastic polyester resins designed to meet the requirements of ANSI C136.10. The CheckPoint will be mounted on the light fixture photocontroller receptacle. Power consumption shall average less than 1.5 watts. The monitoring devices will communicate with each other to form a self-configuring and self-healing mesh topology network consisting of CheckPoints clustered around AccessPoints which are capable of communicating to a secure server via the Internet. A dedicated web site will be provided to enable password protected access to [a] fault reports and [b] control functions.

INSTALLATION & DEPLOYMENT

Checkpoints:

Record the CheckPoint serial number with the light fixture identification/location number. Remove photocontroller, replace with the CheckPoint, return the photocontroller to the 3 prong receptacle on the top of the CheckPoint.

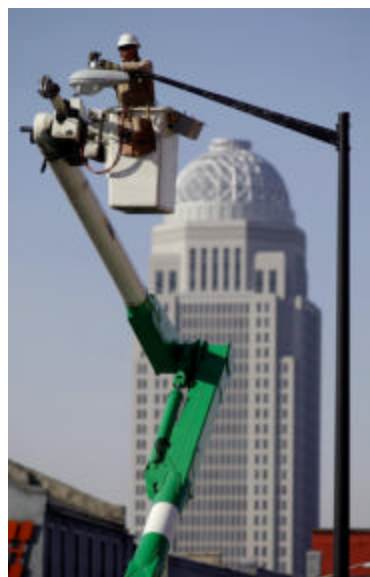
AccessPoints:

The AccessPoints are installed in the same way as the CheckPoints, described above.

Contact Telemics for advice on placement/location of AccessPoints.

Commissioning/set up:

Contact Telemics to arrange for activation of the network and set up of the dedicated client monitoring/control web site.



Specifications subject to change without notice.