BLUE-BAND

The Integrator

FEATURES AT A GLANCE

TRAFFIC APPLICATIONS

ITS APPLICATIONS

P PARKING APPLICATIONS

BLUE-BAND

INTEGRATOR INPUTS (TCP/IP)

Radar Detection

Lidar Detection

Video Detection

Volume: 42
Speed: 69 MPH
Occupancy: 12%
85th Percentile: 73 MPH
Length: 17ft
Class: 2
Axle: 2
Bluetooth ID: 02:CE:62:BE:B3:84
Wrong Way Occurrences: 0

Analytics & Telemetry

Blue-Band Integrator

2.4 GHz

Signal Phasing & Timing (SPAT) Data

2.4 GHz

Blue-Band D-TX Detector

NEW TRAFFIC PATTERN

PRIOR TO EXIT 93

STAY ALERT

NTCIP DMS Message Input

BLUE-BAND

BB-SDLC

SDLC Output
Signal Controller

Model 2970-X3 Unit

Vehicle Detection Output
To Signal Controller
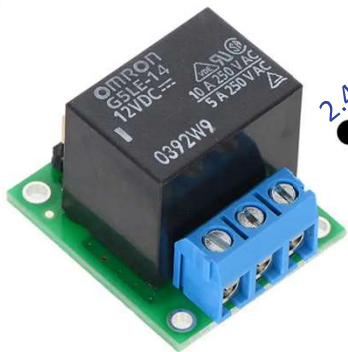
2.4 GHz   **2.4 GHz**

2.4 GHz

Relay Output

Volume: 42
Speed: 69 MPH
Occupancy: 12%
85th Percentile: 73 MPH
Length: 17ft
Class: 2
Axle: 2
Bluetooth ID: 02:CE:62:BE:B3:84
Wrong Way Occurrences: 0

API Output To Third
Party Software

Blue-Band Integrator

2.4 GHz

- Activation (data)
- Deactivation (data)
- Delay
- Extend
- Pulse

Rack Card
Detector Call
(Signal Controller Interface)

NEW TRAFFIC PATTERN
PRIOR TO EXIT 93
STAY ALERT

NTCIP DMS Output Message to Sign

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INTEGRATOR FEATURES

Real Time Data Collection
[Approach & Lane]
- Volume
- Occupancy
- Headway
- Gap
- Speed
- Length
- Classification
- Axle
- Wrong Way
- Bluetooth MAC Acquisitions (Hits) [Probe Data]

Interval Data Collection
(By Hour)[Approach & Lane]
- *Volume*
  - Total
- *Occupancy* (Time & Percent)
  - Average
  - Total
  - Maximum
  - Minimum
  - Average Percent
- *Speed*
  - Minimum
  - Maximum
  - Average
  - 85th Percentile
- *Length*
  - Average
  - Maximum
  - Minimum
- *Headway*
  - Average
  - Maximum
  - Minimum

- *Gap*
  - Average
  - Maximum
  - Minimum
- *Total Axles*
  - Total
- *Wrong Way Occurrences*
  - Total
- *Bluetooth MAC Acquisitions* (Probe Data)
  - Total Hits

Detector Phase Call
(Signal Controller Interface)
- **Wireless Contact Card Interface**
- **SDLC** (Detection Activation), (S.P.A.T Data) & (Light State)
- **NTCIP 1202 Direct To Controller** (Detection Activation), (S.P.A.T Data) & (Light State)
- **Third Party Software Integration**
- **API** data to third party software

Parking
- Space Occupied
- Space Vacant
- Counter Ingress
- Counter Egress
- Counter Adjust
- Parking Zones
- Parking Groups
- DMS (Digital Messaging Sign Control) [NTCIP Compliant]

DMS Management
- Message Display Emulator
- NTCIP
- Parking Status Displayed

Contact Card Management
- Vehicle Presence Actuation

D-TX Detector Management
- Voltage
- Charge by hour
- Temperature
- Temperature by hour
- Vacant or Occupied notification
- Calibrate
- Pair
- Unpair
- Turn LED 0n & Off
- Configure Detector
- Delete Detector
- Sleep & Wake
- OTA (Over The Air) Firmware Updates
- Operational Status
- Reboot
- GPS Auto Locate
  - GPS Coordinates
- Detector Command Chat

INTEGRATOR FEATURES (CONTINUED)

MAP
- GPS Placement of Detector & Collector
- Satellite and Terrain View
- Zoom
- Labels
- Shortcut Device View
  - State (Presence or Vacant)
  - Sleep or Awake
  - Temperature F°
  - Voltage
  - MAC/Serial

Home Page View
- Collector Serial / MAC
- Storage Usage
- Health Status
- Paired Detectors
- Interval Data by Approach & Lane
- Bluetooth Hits
- Light State (SPAT)
- Detector Call Status

Network Settings
- Static & DHCP For Land Line & Wireless
- Cellular (Travel Time Software Only)
- DNS

Event
- Traffic
  - Event per lane
- Parking
  - Event per zone
  - Contact Card
    - Event (Trigger Information)
  - Bluetooth
    - Processed MAC

Time Synchronization
- NTP (Synchronization)
- Time Zone Recognition
- Manual Time Entry
- Sync to Computer Time

Relay
- Extends Detection Operation Over Ethernet

Token
- Security for accessing API information

Admin
- User & Password Assignments

Group
- User access group permission list

System
- Configuration Download and Upload
- Firmware Updates
- Firmware Change Log
- Reboot Collector
- License Activation
  - Bluetooth
  - Traffic
  - Parking
- Firmware
  - Collector
  - Detector
    - Boot
    - Application

Telemetry

Speed

Length

Wireless

Bluetooth ID Collection

Analytics

Travel Time

Vehicle Presence

Renewable Energy

Wrong Way Detection

BLUE-BAND

We Build Smart Cities From The Ground Up!