



VIP3D.xs

Vehicle Presence Detection & Data Collection

Single slot direct plug-in module for type 170, 2070, NEMA TS1 & TS2 and ATC controllers



Single slot module VIP3D.2 s

FEATURES

- » Stop bar and advance vehicle presence detection for intersection control
- » Up to 24 presence detection zones and 8 data collection zones for VIP3D.1s (up to 20 presence zones and 4 data zones per camera for VIP3D.2s)
- » Presence call delay and/or extension
- » Fail-safe outputs
- » Up to 24 cable-connected outputs and 20 inputs via I/O expansion modules

- » Traffic data collection
 - ✓ Count
 - ✓ Speed
 - ✓ Classification
 - ✓ Occupancy
 - ✓ Density
 - ✓ Headway
 - ✓ Gap time

BENEFITS

- » Single slot direct plug-in module, dual or single video input, rack space saving board
- » Field-proven performance, presence detection and data collection identical to VIP3.x and VIP/D
- » Easy to install, user-friendly setup, high mean time between failures (MTBF) and low mean time to repair (MTTR)

VIP3D.xs is a video detection solution that provides vehicle presence information to the intersection controller. VIP3D.xs integrates vehicle presence detection and traffic data collection in one module and provides a **cost-effective** and **powerful** solution for intersection control.

As a **single slot module**, VIP3D.xs plugs into all standard cabinet racks. The VIP3D.xs module interfaces directly to the controller via cable-connected outputs.

Configuration of VIP3D.xs is **straightforward**, a PC is not required. The technician connects a video monitor for a **user-friendly setup** with visualization of zone positioning and detection.

Zones for **stop bar** or **advance presence detection** can be combined logically to the **fail-safe** outputs.

VIP3D.xs provides all relevant traffic data and distinguishes between 5 levels of service for flow monitoring. VIP3D.xs emulates traditional double or single loop detectors.



Stop bar vehicle detection



VIP3D.1s and VIP3D.2s

VIDEO DETECTION SOLUTION – SYSTEM ARCHITECTURE

In a typical installation, the VIP3D.xs detector modules (single or dual video input) are plugged into a standard cabinet rack.

A VIP 2I/Os or 4I/Os expansion module may provide extra inputs and outputs to the detector.

VIP3D.xs interfaces directly to the traffic controller via cable-connected outputs.

PRODUCT SPECIFICATIONS

Dimensions

4.5 in H x 1.1 in W x 7.0 in L (114 mm x 28 mm x 178 mm)

Power

10.8v to 26.5 VDC

Consumption, current

- 200 mA @24 V for VIP3D.2 s
- 160 mA @ 24 V for VIP3D.1 s

Video

In: 75Ω 1Vpp, PAL or NTSC

Out: via BNC connector - front

Outputs / Inputs

4 outputs (open collector, selectable active low or high)

Up to 24 outputs/20 inputs via expansion modules

Communication

Serial port - front for setup

RJ11 connector – front to the expansion modules

Double row 22 pins EDGE (NEMA TS2-1992)

connector – back

Push button – front for reset/recall

Indicators

LED for connection to I/O Expansion modules

Power LED, Video in LED

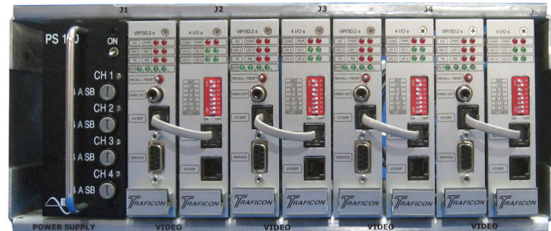
LED for the communication status

LEDs for the outputs status

Environmental

-34°C to +74°C

0 to 95% relative humidity - non-condensing



Rack with VIP3D.2s and 4I/Os expansion modules

PRESENCE DETECTION

- » Stop bar or advance detection on up to 24 presence zones (up to 20 zones per camera for VIP3D.2s)
- » Zones configurable with delay and extend time
- » Up to 24 fail-safe detector outputs
- » Up to 20 inputs
- » Combination of outputs and inputs with Boolean logic
- » Queue length measurement
- » Configuration scheduling

DATA COLLECTION

- » Count, speed, classification, occupancy, density, headway and gap time
- » Up to 8 data collection zones (up to 4 zones per camera for VIP3D.2s)
- » Traffic flow monitoring
- » Configurable on-board database
- » Loop emulation

Data subject to alteration without notice or obligation

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