



SITRAFFIC VIP/P – Presence monitor

The Module for Presence Detection as Input for Traffic Controllers

KEY BENEFITS

- Presence detection AND counting data AND queue length measurement
- High reliability

PRESENCE DETECTION

- Presence information fed to the traffic controller via optically isolated open collector outputs or a serial line

COUNTS

- Number of vehicles passing over a detection zone for up to 6 lanes

QUEUE LENGTH MEASUREMENT

- Indication (with thresholds) of the length of the queue formed by waiting vehicles

VIP/P Presence Monitor

One VIP/P board covers 24 detection zones, which are direction sensitive. These can be combined to 8 outputs. All zones and parameters can be changed without interrupting detection. The user can easily specify several configuration and detection parameters. He can even decide on the amount of information to be displayed on the monitor. All of these options are available via an extremely user-friendly, menu-driven set-up procedure using a VIP keypad or portable PC. The convenience of a remote set-up via the VIEWCOM is also possible.

Presence detection

VIP/P monitors the presence of vehicles approaching or waiting at the intersection.



It provides this presence information to the traffic controller via optically isolated open-collector outputs or a serial line.

Counts

For a good camera position, the VIP/P counts the number of vehicles passing over a detection zone for up to 6 lanes.



Queue length measurement

VIP/P provides an indication on the length of the queue formed by waiting vehicles as a feedback to the controller. In this way, the combination of presence information, counts and queue length measurement delivers all information need for an optimal control.

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TYPICAL INSTALLATION

- In a typical installation, up to 4 VIP/P's can be integrated into a C800V combined with a SITRAFFIC VIEWCOM on a special backplane. If more VIP/P's are required, it is possible to use a second backplane.
- The detection needs of the intersection determine the total number of the cameras and detectors required.
- The output (presence detection) of the VIP/P is used as input by the traffic light controller to control the traffic flow.
- Communication options of the boards are serial (RS232/RS485) and open collector outputs.
- A SITRAFFIC VIEWCOM provides remote monitoring, remote set-up and the ability to change detector configurations remotely.
- The SITRAFFIC VIEWCOM uses dialup lines or leased lines, fibre optic or other means for communication.

Dimensions

- Euro Card for integration in C800V controllers

Communication

- RS-232C service ports for set-up
- RS485 communication within a rack for data collection
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Inputs

- Composite video 75 Ω 1Vcc CCIR/EIA
- Power Supply
- Reset button on front panel

Outputs

- Analog video output with overlay of system info data & detection lines or zones
- Auto-diagnostic LED indicators
- 8 optically isolated open-collector outputs
- 1 optically isolated open-collector error output

Connector

- DIN 41612 - 64 pins B (male)

Power Supply & Consumption

- +5V dc (600mA) tot +26V dc (200mA)

Environmental

- -34°C à +74°C
- 0 à 95% relative humidity-non-condensing

EMC

- EN 55022 - EN 50082-2 Industrial

PRESENCE DETECTION

- VIP/P provides up to 24 detection zones per camera
- Per zone, detection can be made direction sensitive.
- VIP/P provides presence information to the traffic controller via 8 optically isolated open-collector outputs.
- Configuration upload & firmware updates proceed via serial line.
- Single zones can be edited without interrupting operation.
- VIP/P can store
 - Up to 4 different detector configurations on board with programmable timer for automatic configuration switch.
 - Counting data into circular memory for 4000 intervals per camera *
- VIP link software handles
 - Configuration upload/download
 - Data download
 - Firmware upload via RS232

(*) *planned for the next release*

COUNTS

- VIP/P counts the number of vehicles passing over the detection zones for up to 6 lanes (provided the camera position permits it.)

QUEUE LENGTH MEASUREMENT

- VIP/P measures (with thresholds) the length of the queue formed by vehicles waiting at the intersections.