

COMPONENT OPTIONS

TRAFFIC ACTUATION SYSTEMS

PROVIDING A BROAD RANGE OF DETECTION SYSTEMS TO SUIT ANY NEED

Horizon Portable Traffic Signals have been engineered to be component based systems. Add-On components are available to enable designers and engineers to meet their specific project requirements.

Doppler Radar Detection

The Doppler Radar Detection System has been designed to detect approaching vehicles only. It can detect vehicles moving at speeds as slow as 2.5 mph (4 km/h). The Doppler Radar Detector mounts directly to Horizon Signal Systems and is easily adjusted to maximize the detection zone. It is equipped with an LED indicator to provide visual confirmation of detection. The Doppler Radar Detector has a rugged housing and an operating temperature range of -40° to 158° F (-40° to 70° C).



Microwave Detection

The Microwave Motion Detector can be configured to detect approaching vehicles only. The Microwave Motion Detector provides an adjustable detection zone of up to 200 feet for cars and 350 feet for trucks. It is equipped with an LED indicator to provide visual confirmation of detection. The Microwave Motion Detector mounts directly to Horizon Signal Systems and has an operating temperature range of -35° to +165° F (-37° to 75° C).



Video Detection

The Video Detection System provides true presence detection and can be configured with multiple directional detection zones. The Video Detection Camera mounts directly to Horizon Signal Systems with detection zones being configured via standard lap top computer. The non-intrusive installation and configuration is accomplished quickly and efficiently.



Loop Detection

Horizon Signal Systems can be equipped with a Loop Detection Module to facilitate the use of existing, new or temporary loops. The Loop Detection Module provides true presence detection and features adjustable sensitivity, self tuning and detection indicator. The Loop Detection Module can accommodate multiple loops.



How It Works



Traffic detection modules are used to recognize vehicles entering a pre-designated zone(s). This information is transmitted to the signal controller which coordinates signal operation. Signals which have been actuated via the detection module will be provided a green indication in the order of detection occurrence or in the order of pre-programmed priority. The signal controller can be programmed to provide minimum and varying green times based on vehicle presence up to a pre-programmed maximum green time. Horizon Portable Signal Systems can also be programmed to rest in red until vehicles enter the detection zone. This type of programming combined with the varying green time based on vehicle presence ensures the most efficient traffic flow.

Traffic Actuation Comparison Chart

	<i>Doppler Radar</i>	<i>Microwave Motion</i>	<i>Loops</i>	<i>Video</i>
Installation	Easy / Fast	Easy / Fast	Difficult / Slow	Easy / Fast
Configuration	Easy / Indiscriminate	Easy / Indiscriminate	Easy / Precise	Easy / Precise
Verification of Detection	Onboard LED	Onboard LED	Onboard LED	Visual w/ Laptop
Number of Detection Zones	1	1	1	Up to 8
Number of Traffic Lanes	1	1	1	4
Detection Sensitivity	Moving Only	Moving Only	Moving / Stopped	Moving / Stopped
Operating Temperature Range	-40° to +158° F -40° to +70° C	-35° to +165° F -37° to +75° C	n/a	n/a

General specifications for traffic actuation systems are subject to change without notice to reflect improvements and upgrades. Additional information is available. Contact Horizon Signal Technologies for details.



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OTHER OPTIONS



Pre-emption System

The Pre-Emption System provides a green phase in the direction of an approaching emergency vehicle. Indication lights will confirm the system is functioning. Actuation is accomplished through optical communication.



Wireless Interface System

Allows a Horizon Signal System to be connected wirelessly to and operated by a standard street corner controller. Allows for a quick and easy temporary signal replacement in the event of a signal knockdown or any event to cause a permanent signal to fail. Temporary signal can be connected to a controller in under 30 minutes.



Pedestrian Signals

Pedestrian Signals can be added to the SQ3TS trailer mounted signal system or the SQ2 cart mounted signal system. They can also be used as a stand alone cart mounted indication for flexible placement. Horizon pedestrian signals conform to MUTCD Standards and are available with a push button actuation.



Remote Monitoring System

Allows an authorized user to monitor any Horizon Signal System's location, battery voltage, operating hours and system default from any internet enable source. The RMS will also send authorized users text messages / e-mail alerts in the event a signal is moved, battery voltage is low or if there is an interruption in communication.



Pilot Car / Flagger Module

Allows a pilot car driver to operate the Horizon signal system remotely using a hand held transmitter. The operator can provide a green indication to a phase of traffic for a pre-prescribed time, after which the signal reverts to an unlimited red indication.

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