

Heimdall above-ground detectors offer advanced solutions for SCOOT and MOVA applications. Developed wholly by Siemens, the heart of each detector is a technologically advanced planar radar antenna system and a sophisticated digital signal processing engine. Using the latest 24GHz radar technology, these detectors offer high performance, simple installation and low ongoing maintenance, while their small size ensures that unnecessary street clutter is minimised.

SCOOT and MOVA

Heimdall is designed to operate in a 'side fire' configuration, and with advanced signal processing, offers excellent count and occupancy performance as well as good 'gap' detection capabilities and is ideal for SCOOT and MOVA applications.

For optimum performance, the detector is mounted at a height of 4m, but they may be mounted at a range of heights from 4m to 8m. Where dual-lane detection is needed, a second Heimdall unit may be mounted above the first to cover the second lane.

Simple installation

Heimdall detectors are supplied pre-configured with standard settings, which are suitable for the majority of installations.

When on-site customisation is required, this can be achieved using simple configuration switch settings, which eliminates the need to use expensive and vulnerable PC or PDA-based configuration tools. Only when access to advanced settings or detailed fault log information is required will it be necessary to use a PC or a PDA. If required, Heimdall can be supplied with Bluetooth functionality, allowing these functions to be accessed from ground level.

PC and PDA access can be achieved using a simple terminal program, so it is not necessary to purchase expensive proprietary software to access Heimdall detectors.

High performance

Unlike some vision-based systems, Heimdall's radar technology eliminates false detection due to light level changes and the effect of shadows, and will continue to work equally well in both bright and totally dark locations. Similarly, the effects of fog and rain, which can severely affect the performance of vision-based systems, go largely unnoticed when Heimdall is deployed, ensuring the best possible performance of the road network, whatever the conditions.



- SCOOT and MOVA traffic detector
- Simple installation
- No road surface disruption
- Low maintenance
- Immune to changing light levels
- Advanced 24GHz radar technology

'Heimdall is the Watchman of the Gods in Norse mythology. He requires less sleep than a bird and can see a hundred miles around him, by night as well as by day'

Heimdall

SCOOT and MOVA detectors

Traffic Solutions

SIEMENS

Reduced maintenance

Ongoing maintenance costs are sometimes a concern, particularly with camera-based detection systems, where frequent lens cleaning may be necessary to maintain performance. Heimdall's radar-based technology means such maintenance is not required, offering considerable cost savings.

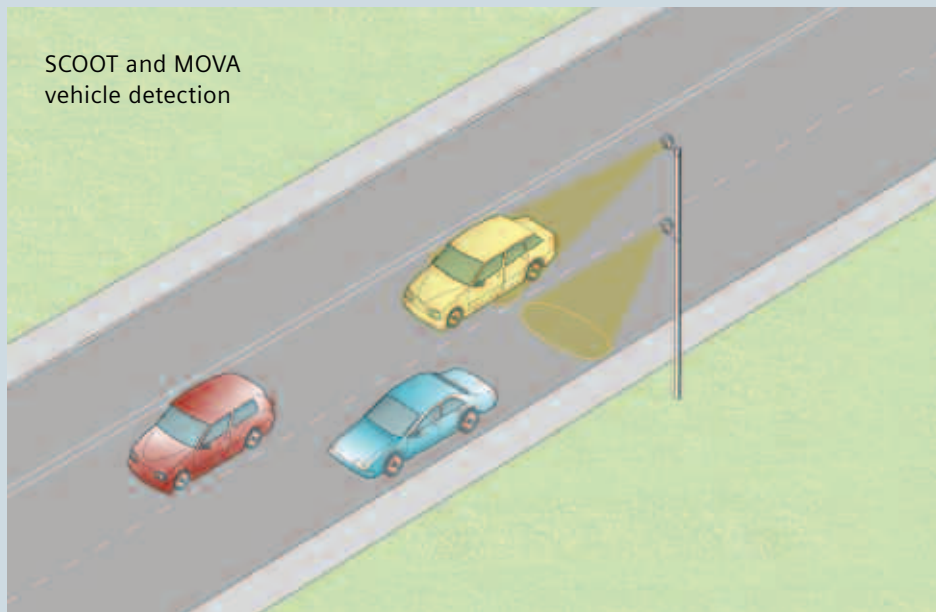
The Heimdall family of traffic detectors incorporates the following additional features:

Terminal access

Although most set-up and simple diagnostic tasks can be undertaken without the need to use PC or PDA tools, access to advanced settings and performance data is provided via a simple handset interface.

Bluetooth

Where terminal access is required for configuration and maintenance purposes at ground level, all Heimdall detectors can be fitted with a Siacom Bluetooth option.



Technical specification

Approval

- EMC: EN50293
- Radio Approval: EN300440

Supply voltage

- 24V AC \pm 20% (48 to 63Hz), or 24V DC \pm 20%

Typical supply current

- 143mA (AC)
- 113mA (DC)
- 154mA (AC) – with wireless or serial data options
- 123mA (DC) – with wireless or serial data options

Dimensions

- 150mm(H) x 135mm(W) x 90mm(D) (to the bottom of mounting bracket)

Weight

- Less than 1.6kg

Standard connection

- Defined Bulgin Buccaneer connector and pin-out

Operating range

- Single lane adjacent to mounting pole

Lane width

- Replicates the function of a normal SCOOT/MOVA loop

Vehicle approach speed

- 0km/hr (0mph) to greater than 112km/hr (70mph)

Detection presence time

- Configurable up to 30 minutes
- Configurable by switch or terminal

Data accuracy

- Count: better than 98%
- Occupancy: better than 98%

Detector location

- Can be located on either a 'nearside' pole or an 'offside' pole, towards traffic flow or 'side fire' across lane being monitored

Detector mounting height

- Various pole heights (above the ground) accommodating 3.3m to 8.0m
Actual SCOOT 'footprint' will be dependant on the mounting height

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