

The Siemens ST4S inductive loop vehicle detector is designed for use in both urban and inter-urban environments. Meeting the latest specifications, and offering exceptional performance, the detectors interface to all popular traffic control equipment.

Operational details

The ST4S is a self-tuning unit in a 3U extended eurocard format with a standardised pin-out compliant with TR2512.

Providing four separate detection channels, the ST4S offers fully solid state outputs designed for maximum reliability in both normally open (n/o) and normally closed (n/c) configurations.

Sensitivity level and presence time controls are provided on the front panel for each channel. The unit is capable of detecting bicycles when configured for maximum sensitivity.

The presence time is selectable via on-board switches to allow 3.5 seconds, 4 minutes, 35 minutes or 2 hours (non-UK use) in conjunction with the front panel switch. Each channel is provided with a switch to alter the loop frequency, allowing interactions between loop detectors in close proximity to be eliminated.

LEDs are provided on the front panel to indicate detection and fault. The LEDs are disabled after a preset time to reduce the power consumption. A push-button is provided to reactivate the LEDs when required. Reset may be effected by means of the push-button on the front panel, a power-down/power-up sequence or by the reset input provided on the connector.



- 3U eurocard format
- Four detection channels
- Solid state outputs for maximum reliability
- Designed to meet UK specification TR2512
- Self-tuning operation
- Provides accurate speed measurement through an interpolation algorithm
- Selectable sensitivity and presence time controls via front panel
- Power saving LED display mode

ST4S vehicle detector

Traffic Solutions

SIEMENS

Technical specification

Physical characteristics

- Standard single extended Eurocard outline (160mm x 100mm x 25mm nominal)
- 4-channel loop detector
- Sensitivity: 7 levels between 0.01 and 1.0% dL/L
- Vehicle speed: 0-129km/h
- Loop inductance: 20-1000 microhenries including feedercable
- Recommended loop cable: 1.5 or 2.5sq.mm
- Maximum loop size: 6 lanes with 150m feeder or 3 lanes with 300m feeder (based on chevron loop array of 1.1m in direction of travel)
- Feeder length: 0-300m
- Recommended feeder: 1.5 or 2.5sq.mm
- Power supply: 24 volts AC/DC + -20% at 120mA
- Operating frequency: 20-110kHz
- Output levels: Isolated solid state (n/o and n/c)
- Designed to meet UK specification TR2512

Safety

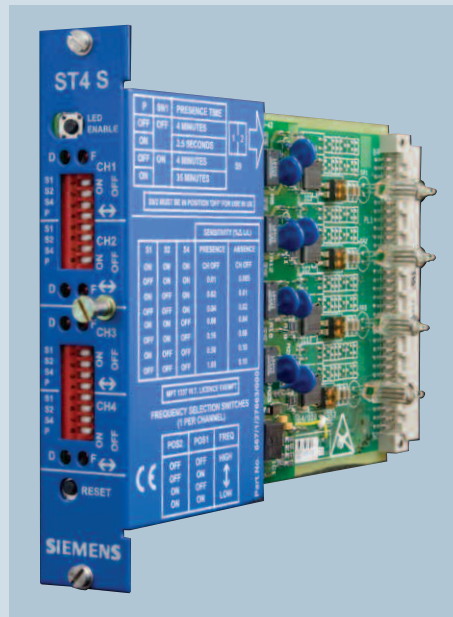
- Meets electrical safety requirement EN 60950

Environmental

- Meets mechanical and temperature requirements of European specification HD638
- Operating temperature: -15°C to +70°C
- Humidity: 95% (non-condensing)

Electromagnetic compatibility

- CE marked
- Meets emission and susceptibility requirement of EN 50293



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