SIEMENS
Ingenuity for life

Sitraffic SLD4

The field-proven loop detector with an extended range of uses

Special advantages

- Reliable detection
- No interference by ambient conditions
- Automatic sensitivity adjustment
- High flexibility in regard to the loop frequencies used (real multiplexing)
- Easy installation
- DIP switches for setting the majority of parameters
- USB interface
- Convenient parameterization via user-optimized PC software

Loop detectors have become an indispensable element of today's traffic management landscape. Over the last 35 years, Siemens induction loop detectors have successfully proven that they are up to key traffic detection tasks at any point in the street network: Their unmatched robustness and accuracy ensures the provision of reliable data under all ambient conditions. Siemens' Sitraffic SLD4 combines the expertise gained in over thirty years of practical application with state-of-the-art technology and an extended range of uses.

High detection rates for all uses

Sitraffic SLD4 achieves high detection rates for any loop type, no matter if small or large, old or new, with long or short connection line. Crosstalk, too, is now a thing of the past, because true multiplexing technology allows the same frequency to be used for all four loops connected to the detector. Sitraffic SLD4 is not only a tool of choice for simple presence detection of all vehicle types (including bikes). It also provides highly accurate data on vehicle speed and records and analyzes vehicle length and profile to distinguish up to eight different vehicle classes.

Easy to configure via DIP switches or PC software

For nearly all single-loop systems and also the commonly used double-loop systems, parameters can be defined and accessed using the DIP switches. This makes installing the detector fast and easy in the vast majority of applications – without a PC. For added convenience and an extended range of functions, a user-friendly PC software program is available for accessing all parameters and using numerous special tools such as vehicle simulation. Even complex applications are very easy to implement. With a few mouse clicks you can realize, for instance, a function that requires an output to be activated only if a truck passes a double loop in travel direction with a speed between x and y km/h.

Compatible with the Sitraffic landscape

Sitraffic SLD4 is an integral part of the Sitraffic landscape and smoothly slides into any Siemens controller or outstation housing. Of course, the loop detector is also fully compatible with the traffic control center systems Sitraffic Scala, Concert and Conduct+.

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Technical specification

Input voltage range	10 to 32 V DC
Power consumption	0.75 W/LEDs when OFF, 1.0 W/LEDs when ON
Dimensions	160 × 100 × 25 mm (W × H × D)
Temperature range	−25 to +80 °C
Loop inductivity	20 to 2000 µH (including connection line)
Length of connection line	0 to 300 m (depending on the application, line lengths > 300 m possible)
Loop frequency	30 to 120 kHz
Sensitivity	0.004% to 1.0% dL/L
Speed range	0 to 250 km/h (155 mph)
Classification	8 + 1 vehicle classes
Outputs	• Open collector outputs • Max. voltage 35 V DC • Capacitance: 50 mA for a voltage drop of max. 2.5 V • Pulse 100 mA/10 ms
DIP switches	• Sensitivity • Maximum presence time • Loop frequency • Mode (single loop, double loop, TLS Type I or II)
Interfaces	• USB (PC interface) • RS485 (Sitos)
Compliance with standards	• EN 50293 • EN 60950 • ETSI EN 300-330

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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INFORMATION SECURITY MANAGEMENT SYSTEM
ISO/IEC 27001