



safety and flow

TrafficSense Pro

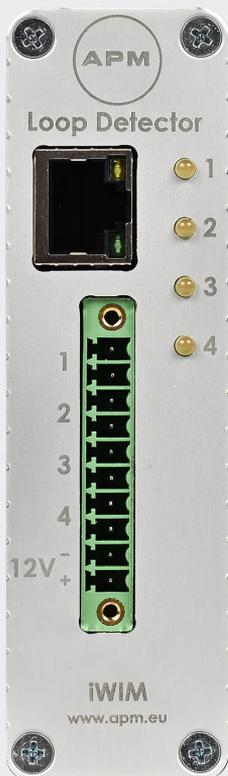
Loop Detector

TrafficSense Pro

TrafficSense Pro is a precision device that uses an inductive loop installed in the road surface to detect passing vehicles by analyzing changes in loop sensor inductance. This solution is used in ITS systems, parking facilities, traffic management systems, and weigh-in-motion (WIM) stations. It guarantees high reliability, fast response time, and accurate detection regardless of road conditions.

Key Features

- » High sensitivity and very short response time
- » Stable operation across a wide temperature range
- » Detection mode support: presence, counting, traffic direction
- » Vehicle classification using neural network software
- » Easy integration with ITS, parking, and weighing systems
- » Simple installation on 35 mm DIN rail



Basic Technical Specifications

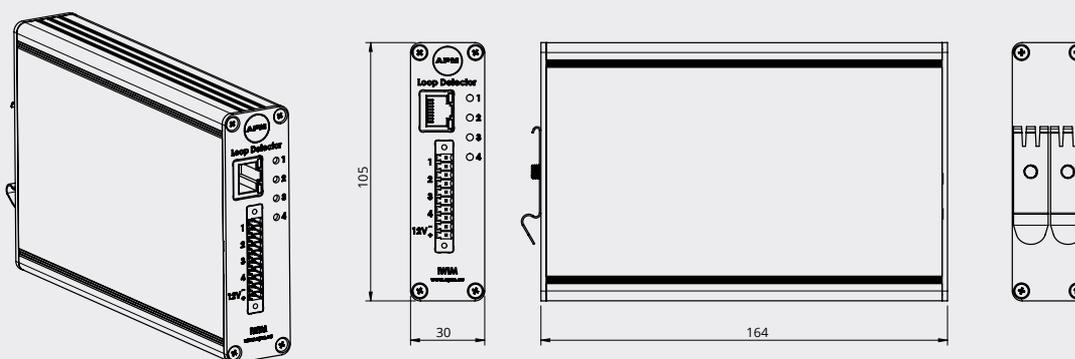
Supply voltage	6 – 14.4 VDC
Power consumption	≤ 2 W
Operating temperature	-20 ... +80°C
Protection rating	IP30
Mounting	35mm DIN rail
Dimensions	164 × 105 × 30 mm
Weight	approximately 300 g
Communication interface	Ethernet
Communication protocol	TCP
Loop inductance	80-140 μH, type 2 per TLS
Active channels	1, 2, 3, 4
Feeder length	up to 100 m
Recommended feeder cable type	A-2Y(L) 2Y 2×2×0,8
Inductive loop requirements	per TLS type

Applications

- » Intelligent Transportation Systems (ITS) – integration with traffic management and monitoring systems
- » Parking systems – vehicle counting at entry and exit points
- » Traffic signals – interfacing with controllers to optimize traffic flow
- » Automatic gate control – precise vehicle detection in traffic zones
- » Two-lane operation in single or dual directions

The device enables communication with supervisory systems via Ethernet interface, allowing for real-time remote monitoring.

Dimensions





<http://apm.pl/pdf/en/TrafficSensePro.pdf>

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