



TIC102

Reliable vehicle classification and axle counting

PROFILING SYSTEMS

SICK
Sensor Intelligence.



Technical data overview

| | |
|--------------------------------------|---|
| Application | Traffic management, Toll collection |
| Integrated application | Vehicle classification, vehicle counting, Axle counting |
| Ambient operating temperature | -20 °C ... +50 °C ¹⁾ |
| Weight | 15 kg / 16.1 kg (depending on type) |

¹⁾ Protection against direct sunlight is required to prevent overheating.



Product description

The TIC102 (Traffic Information Collector) profiling system is based on SICK's proven laser measurement technology. It is designed for use in multi-lane, free-flowing traffic and stop-and-go traffic for toll systems and for performing traffic management. A highly innovative configuration tool, including a live 3D view, allows commissioning in just a few minutes. The system is automatically calibrated during flowing traffic and provides an integrated remote maintenance function. Configurable software triggers significantly improve the detection and read rates of license plate cameras and DSRC antennas. The TIC102 profiling system has been enhanced with a roadside 2D LiDAR sensor for axle counting. The combination of the data from the 2D LiDAR sensors mounted on the side and above the road surface ensures reliable axle counting, including the confidence level.

At a glance

- Highly precise vehicle classification and axle counting in all traffic conditions
- Reliable in free-flowing and stop-and-go traffic
- Detection of lane changers
- Detection of up to 30 different vehicle classes
- Time synchronization with external systems
- Easy to install and commission

Your benefits

- Automatic calibration allows commissioning in just a few minutes
- Intuitive graphical user interface allows quick and easy operation
- Full detection of vehicles and axles increases classification accuracy
- Simple and economical installation above the roadway. No work is required on the road surface.
- The software trigger improves the detection and reading rate of license plate detection cameras or the DSRC antenna system
- Long maintenance intervals and fast installation reduce operating costs to a minimum
- Reliable operation even at night and in inclement weather

Fields of application

- Vehicle classification and axle counting for electronic toll collection on multi-lane road
- Fast lanes at tollbooths
- Traffic management
- Traffic analysis
- Traffic jam detection

Ordering information

Other models and accessories → www.sick.com/TIC102

| System part | Internal computer | Type | Part no. |
|---------------|------------------------|--------------|----------|
| TIC102 Master | Traffic Controller TIC | TIC102-20000 | 1055102 |
| TIC102 Slave | — | TIC102-02000 | 1055104 |

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com