



## Laser scanners TIC1xx / TIC102 / Outdoor / Short Range

TIC102-20000



**Model Name** > [TIC102-20000](#)  
**Part No.** > [1055102](#)



#### At a glance

- Highly precise vehicle classifications on multiple lanes for free-flowing and blocked traffic flow, even with lane changer
- Flexible and adaptable classification system
- Integrated standard classes
- Reliable operation even at night and in inclement weather
- Additional information such as speed, vehicle dimensions, triggers for license plate cameras and DSRC antennas

#### Your benefits

- Automatic calibration: The configuration of multiple lanes takes only minutes
- The detection of vehicle class, trigger, speed and vehicle dimensions facilitates the use in many application fields
- For simple integration, the system automatically combines the data of up to 4 lanes and outputs the results on a single interface
- The vehicle data can be stored directly in the processing head. This permits independent, temporary measurements to be performed easily.
- No complex installations into the road surface are required
- The triggering of the TIC102 improves the detection and reading rate of the license plate detection or the DSRC system
- Long maintenance intervals and fast installation lower the operating costs to a minimum



#### Features

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Field of application: | Outdoor                                                                                                                                      |
| Version:              | Short Range                                                                                                                                  |
| Laser class:          | 1 (IEC 60825-1 (2007-3)), complies with 21 CFR 1040.10 except for the tolerance according to Laser Notice No. 50 from June 24, 2007          |
| Field of view:        | 180 °                                                                                                                                        |
| Scanning frequency:   | 50 Hz                                                                                                                                        |
| Heating:              | Yes                                                                                                                                          |
| Operating range:      | ≤10 m (Visibility might be limited to less than 10 m in case of fog, snow, heavy rain etc. This might lead to decreased system performance.) |
| System part:          | Processing Head                                                                                                                              |

#### Performance

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| Integrated application: | Vehicle classification                                                  |
| Vehicle data:           | Driving direction, Speed, Vehicle interval measurement, Lane assignment |
| Classification:         | ECTN15, Swiss10, TLS2+0, TLS5+1, TLS8+1                                 |

Vehicle dimensions: Width, Height, Length

---

### Interfaces

|                      |                           |
|----------------------|---------------------------|
| Serial (RS-232):     | -                         |
| Ethernet:            | ✓                         |
| Function (Ethernet): | Host                      |
| Protocol (Ethernet): | TIC Information Interface |
| CAN bus:             | -                         |
| PROFIBUS DP:         | -                         |
| PROFINET:            | -                         |
| DeviceNet:           | -                         |

---

### Mechanics/electronics

|                    |                          |
|--------------------|--------------------------|
| Operating voltage: | 24 V DC± 5 %             |
| Housing color:     | Gray (RAL 7032)          |
| Enclosure rating:  | IP 66 (EN 60529)         |
| Weight:            | 18.2 kg                  |
| Dimensions:        | 482 mm x 355 mm x 373 mm |

---

### Ambient data

|                                |                                |
|--------------------------------|--------------------------------|
| Ambient operating temperature: | -25 °C ... 50 °C <sup>1)</sup> |
|--------------------------------|--------------------------------|

<sup>1)</sup> Protection against direct sunlight is required to prevent overheating.

---

### General notes

|              |                                       |
|--------------|---------------------------------------|
| Note on use: | Not suitable for personnel protection |
|--------------|---------------------------------------|

[illegible]

**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Ceská Republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail kundenservice@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederlands**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail admin@sicksgp.com.sg

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)