



TIC102 Master

TICx02

PROFILING SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
TIC102 Master	1055102

Included in delivery: Traffic Controller TIC (1), LMS111-10100S05 (2)

Other models and accessories → www.sick.com/TICx02



Detailed technical data

Features

Application	Traffic management Toll collection
System part	TIC102 Master (integrated control unit)
System components	LMS111 (2 x)
Number of covered lanes	1
System extension	Up to 4 lanes
Axle counting option	Yes, by means of additional LMS511 SE
Scanner design	2-scanner solution
Vehicle data	Vehicle class (selectable category systems with up to 30 classes) Lane assignment Confidence level for all vehicle datas Driving direction Point cloud
Amount of vehicle classes	Up to 30 classes
Recommended distance between max. vehicle height and sensor	> 1.5 m,
Stop-and-go functionality	Yes
Laser class	1, eye-safe (IEC 60825-1:2014)
Heating	✓
Internal computer	Traffic Controller TIC
Application	Vehicle classification, vehicle counting, Axle counting, Axle counting

Mechanics/electronics

Supply voltage	24 V DC (22.8 V DC ... 25.2 V DC)
Power consumption	130 W, With heating 51 W, without heating
Housing dimensions (W x D x H)	355 mm x 482 mm x 373 mm
Weight	16.1 kg
Installation position	Overhead
Installation height	6 m: 5 m ... 8 m
Enclosure rating	IP66 (EN 60529)

Performance

Counting accuracy	> 99.8 %
Classification accuracy	Typ. 98 % (For TLS8+1 classes)

Interfaces

NTP synchronization	✓
Ethernet	✓ (3)
Function	Operator interface, sensor interface
Data transmission rate	1 Gbit/s, for each interface
Protocol	TEMS Info Interface (TCP/IP Interface)TEMS Manager (HTTP configuration software)
Electrical connection	1 x connector ETH_Host (M12) for operator interface, 2 x connector ETH_Internal (M12) for sensor interface

Ambient data

Ambient operating temperature	-20 °C ... +50 °C, Protection against direct sunlight is required to prevent overheating.
Ambient temperature, storage	-40 °C ... +70 °C

General notes

Items supplied	System housing including 2x 2D LiDAR sensors Traffic Controller TIC with TIC software including USB Stick with TEMS info sample client, source code for TEMS info sample client, TEMS analyzer and operating instructions
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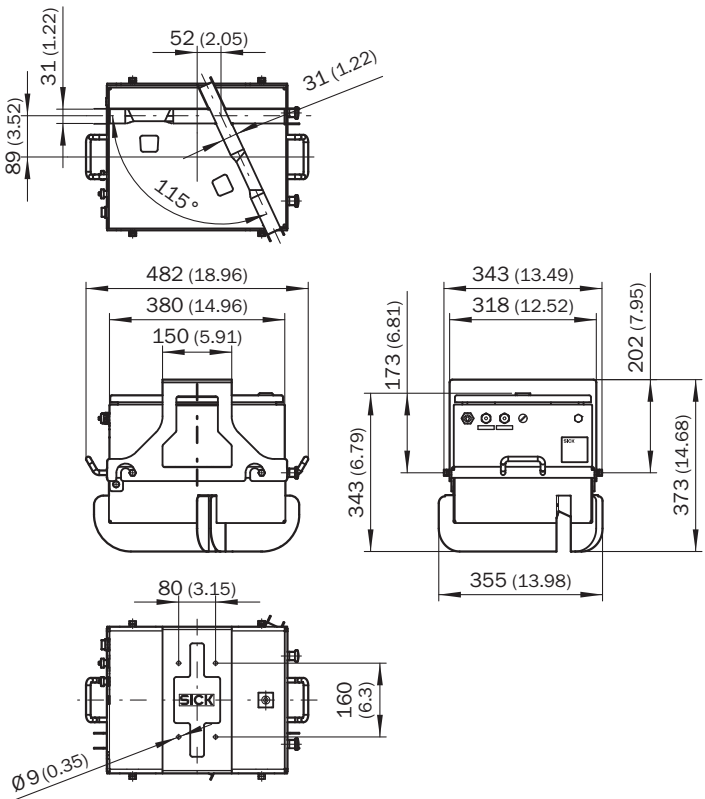
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓

Classifications

ECLASS 5.0	27281001
ECLASS 5.1.4	27280190
ECLASS 6.0	27280190
ECLASS 6.2	27280190
ECLASS 7.0	27280190
ECLASS 8.0	27280190
ECLASS 8.1	27280190
ECLASS 9.0	27280190
ECLASS 10.0	27280190
ECLASS 11.0	27280190
ECLASS 12.0	27280190
UNSPSC 16.0901	41111615

Dimensional drawing



Dimensions in mm (inch)

Recommended accessories

Other models and accessories → www.sick.com/TICx02

	Brief description	Type	part no.
connectors and cables			
	• Connection type head A: Female connector, 7/8", 5-pin, straight • Connection type head B: Flying leads • Cable: 30 m, 5-wire • Description: Shielded • Connection systems: Flying leads	Connecting cable (female connector - open)	6045327
	• Connection type head A: Male connector, M12, 4-pin, straight, D-coded • Connection type head B: Male connector, RJ45, 4-pin, straight • Signal type: Ethernet, PROFINET • Cable: 30 m, 4-wire, AWG26, PUR, halogen-free • Description: Ethernet, shieldedPROFINET	YM2D24-300EA1M-RJA4	6045311
Mounting systems			
	• Description: Mounting bracket	Mounting bracket	4068061
device protection and care			
	• Description: Weather hood for TIC102	Weather protection hood	4068062

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