

LiDAR-LOC 2 LiDAR-LOC

APPLICATION SOFTWARE





Ordering information

Туре	part no.
LiDAR-LOC 2	1122751

Other models and accessories → www.sick.com/LiDAR-LOC

Detailed technical data

Features

Task Localizing, navigating and guiding - Localizing Localizing Localizing, navigating and guiding - Navig		
Variant Prime Product category Embedded software Output data Position (x, y, direction angle), for details see operating instructions Language English Type Stand-alone Version 1.0 Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory Position output At up to 66 Hz Localization resolution 1 mm, position ¹⁾ 0.0001°, orientation ¹⁾ 10.001°, orientation ¹⁾ 10.001°, orientation opending on the sensor combination and environment Udometry support Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Localization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Differentiation between static and dynamic objects	Task	Localizing, navigating and guiding - Navigating
Product category Embedded software Output data Position (x, y, direction angle), for details see operating instructions Language English Type Stand-alone Version 1.0 Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory Position output At up to 66 Hz Localization resolution 1 mm, position ¹) Uccalization accuracy Typ. < 10 mm, position ¹) Up. < 0.25 °, orientation Depending on the sensor combination and environment Odometry support Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Localization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Differentiation between static and dynamic objects	Application	Localization of AGVs/AGCs/AMRs, AGV systems, and mobile platforms of any kind
Output data Position (x, y, direction angle), for details see operating instructions Language English Type Stand-alone Version 1.0 Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory Position output At up to 66 Hz Localization resolution 1 mm, position ¹¹) 0.001°, orientation ¹¹) Localization accuracy Typ. < 10 mm, position ¹¹) 0.205°, orientation Depending on the sensor combination and environment Odometry support Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Localization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Variant	Prime
Language English Type Stand-alone Version 1.0 Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory Position output At up to 66 Hz Localization resolution 1 mm, position ¹¹) 0.001°, orientation ¹¹ Localization accuracy Typ. < 10 mm, position ¹yp. < 0.25°, orientation Depending on the sensor combination and environment	Product category	Embedded software
Type Stand-alone Version 1.0 Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory Position output At up to 66 Hz Localization resolution 1mm, position 1/0.001°, orientation 1/0.00	Output data	Position (x, y, direction angle), for details see operating instructions
Version 1.0 Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory Position output At up to 66 Hz Localization resolution 1 mm, position ¹¹ 0.001°, orientation ¹¹ 0.001°, orientation ¹¹ Typ. < 10 mm, position Typ. < 0.25°, orientation Depending on the sensor combination and environment Odometry support Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Localization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Language	English
Supported products SIM1000 FX Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment \$\frac{3}{3}\text{ m/s}, \text{ translatory} \ \$\frac{9}{9}\text{ o'/s}, \text{ rotatory} Position output At up to 66 Hz Localization resolution 1 mm, position 1) 0.001°, orientation 1) Localization accuracy Typ. < 10 mm, position Typ. < 0.25°, orientation Depending on the sensor combination and environment Odometry support Ruggedization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Number of connectable LiDAR sensors \$\frac{1}{3}\text{ m/s} \text{ controller (IPC): x86-64, ARM}{\text{ ARM}} Software product, one-time payment \$\frac{3}{3}\text{ m/s}, \text{ translatory} \$\frac{3}{9}\text{ o'/s}, \text{ rotatory} \$\frac{1}{9}\text{ o'/s} \text{ o'/s} \text{ orientation} \$\text{ Double of the localization solution using additional vehicle movement information.} Support with reflectors (R4S) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Туре	Stand-alone Stand-alone
Controller (IPC): x86-64, ARM Vertragstyp Software product, one-time payment \$\frac{3}{3}\text{ m/s}, \text{ translatory} \ \$\frac{9}{90}^{\circ}/s, \text{ rotatory} Position output At up to 66 Hz Localization resolution \$\frac{1}{1}\text{ mm, position}^{1\text{ 1}}\text{ 0.001}^{\circ}, \text{ orientation}^{1\text{ 1}}\text{ 0.001}^{\circ}, \text{ orientation}^{1\text{ 1}}\text{ 0.25}^{\circ}, \text{ orientation}^{1\text{ 10}}\text{ 0.25}^{\circ}, \text{ orientation accuracy} \$\text{ Upp. < 10 mm, position}^{\circ}\text{ Typ. < 0.25}^{\circ}, \text{ orientation}^{\circ}\text{ 0.25}^{\circ}, \text{ orientation}^{\circ}\text{ 0.25}^{\circ}, \text{ orientation and environment}} Odometry support Ruggedization of the localization solution using additional vehicle movement information.} Support with reflectors (R4S) Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Version	1.0
Speed ≤ 3 m/s, translatory ≤ 90 °/s, rotatory At up to 66 Hz Localization resolution 1 mm, position ¹) 0.001°, orientation ¹) Localization accuracy Typ. < 10 mm, position Typ. < 0.25°, orientation Depending on the sensor combination and environment Odometry support Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Supported products	
Support with reflectors (R4S) Sumber of connectable LiDAR sensors At up to 66 Hz I mm, position ¹) 0.001°, orientation ¹) 1 mm, position limination limination limination and environment 1 mm, position limination	Vertragstyp	Software product, one-time payment
Localization resolution 1 mm, position 1) 0.001°, orientation 1) Typ. < 10 mm, position Typ. < 0.25°, orientation Depending on the sensor combination and environment Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Speed	
Localization accuracy Typ. < 10 mm, position Typ. < 0.25°, orientation Depending on the sensor combination and environment Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Localization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Position output	At up to 66 Hz
Typ. < 0.25 °, orientation Depending on the sensor combination and environment Odometry support Ruggedization of the localization solution using additional vehicle movement information. Support with reflectors (R4S) Localization even in difficult environments with the help of reflectors Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Localization resolution	
Support with reflectors (R4S) Dynamic environmental perception (DEH) Differentiation between static and dynamic objects Number of connectable LiDAR sensors 4	Localization accuracy	Typ. < 0.25°, orientation
Dynamic environmental perception (DEH) Differentiation between static and dynamic objects 4	Odometry support	Ruggedization of the localization solution using additional vehicle movement information.
Number of connectable LiDAR sensors 4	Support with reflectors (R4S)	Localization even in difficult environments with the help of reflectors
	Dynamic environmental perception (DEH)	Differentiation between static and dynamic objects
		4

 $^{^{1)}}$ The resolution refers to the output localization result via result port and not to the connected sensor's measurement resolution.

Classifications

ECLASS 6.2	19211201
ECLASS 7.0	19211201
ECLASS 8.0	19211201
ECLASS 8.1	19211201

LiDAR-LOC 2 | LiDAR-LOC

APPLICATION SOFTWARE

ECLASS 9.0	19211201
ECLASS 10.0	19211201
ECLASS 11.0	19211201
ECLASS 12.0	19211201
ETIM 5.0	EC000809
ETIM 6.0	EC000809
ETIM 7.0	EC000809
ETIM 8.0	EC000809
UNSPSC 16.0901	25173100

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

