OPERATING INSTRUCTIONS

SIM200

Sensor Integration Machine

SICK
Sensor Intelligence.

Described product

SIM200

Manufacturer

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Production location

SICK PCA
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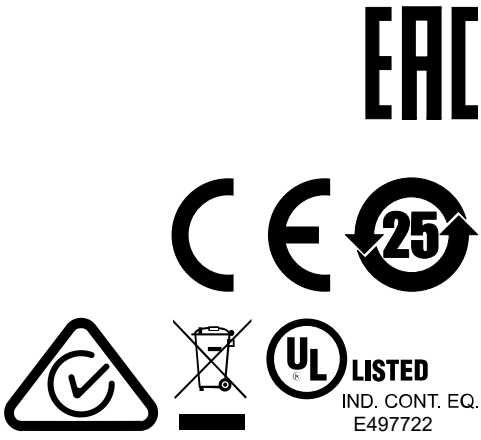
USA

Legal information

Original document

This document is an original document of SICK AG.



Contents

1 About this document

1.1 Information on the operating instructions

These operating instructions provide important information on how to use devices from SICK AG.

Prerequisites for safe work are:

- Compliance with all safety notes and handling instructions supplied.
- Compliance with local work safety regulations and general safety regulations for device applications

The operating instructions are intended to be used by qualified personnel and electrical specialists.

NOTE
Read these operating instructions carefully to familiarize yourself with the device and its functions before commencing any work.

The operating instructions are an integral part of the product. Store the instructions in the immediate vicinity of the device so they remain accessible to staff at all times. Should the device be passed on to a third party, these operating instructions should be handed over with it.

These operating instructions do not provide information on operating the machine or system in which the device is integrated. For more information, refer to the operating instructions of the specific machine or system.

1.2 Explanation of symbols

Warnings and important information in this document are labeled with symbols. Signal words introduce the instructions and indicate the extent of the hazard. To avoid accidents, damage, and personal injury, always comply with the instructions and act carefully.

DANGER
... indicates a situation of imminent danger, which will lead to a fatality or serious injuries if not prevented.

WARNING
... indicates a potentially dangerous situation, which may lead to a fatality or serious injuries if not prevented.

CAUTION
... indicates a potentially dangerous situation, which may lead to minor/slight injuries if not prevented.

NOTICE
... indicates a potentially harmful situation, which may lead to material damage if not prevented.

NOTE
... highlights useful tips and recommendations as well as information for efficient and trouble-free operation.

1.3 Further information

NOTE
Further documentation for the device can be found on the online product page at:

- www.sick.com/SIM200

There, additional information has been provided depending on the product, such as:

- Model-specific online data sheets for device types, containing technical data, dimensional drawing, and specification diagrams
- EU declarations of conformity for the product family
- Dimensional drawings and 3D CAD dimension models of the device types in various electronic formats
- Other publications related to the devices described here
- Publications dealing with accessories

2 Safety information

2.1 General safety notes

The following safety notes must always be observed regardless of specific application conditions:

- The device must only be mounted, commissioned, operated, and maintained by professionally qualified safety personnel.
- Electrical connections with peripheral devices must only be made when the voltage supply is disconnected.
- The device is only to be operated when mounted in a fixed position.
- The device voltage supply must be protected in accordance with the specifications.
- The specified ambient conditions must be observed at all times.
- The electrical connections to peripheral devices must be screwed on correctly.
- The pin assignment of pre-assembled cables must be checked and adjusted if necessary.
- These operating instructions must be made available to the operating personnel and kept ready to hand.

2.2 Notes on UL approval

UL Environmental Rating: Enclosure type 1

2.3 Intended use

The device is a programmable control and evaluation unit for IO-Link sensors and sensors with digital inputs and outputs . The device also acts as a link between system and plant controls, and the connected terminal devices. The device is mainly used in an industrial environment in production, testing, and control. Other applications are possible depending on the device-specific properties.

The device is programmed on a PC by using the development environment software SICK AppSpace. Depending on the application, a browser-based, graphical user interface (HMI) can be created, which provides opportunities defined by the application developer to influence an application at operator level.

The device offers various interfaces for controlling, programming, and operating purposes, which can be activated as necessary via development environments, control systems (programmable logic controllers), or applications.

However, configuration, programming, and control requires various technical skills, depending on how the device is connected and used.

2.4 Improper use

Any use outside of the stated areas, in particular use outside of the technical specifications and the requirements for intended use, will be deemed to be incorrect use.

- The device does not constitute a safety component in accordance with the respective applicable safety standards for machines.
- The device must not be used in explosion-hazardous areas, in corrosive environments or under extreme environmental conditions.
- Any use of accessories not specifically approved by SICK AG is at your own risk.

WARNING
Danger due to improper use!

Any improper use can result in dangerous situations.

Therefore, observe the following information:

- Product should be used only in accordance with its intended use.
- All information in these operating instructions must be strictly observed.
- Shut down the product immediately in case of damage.

2.5 Internet protocol (IP) technology

NOTE

SICK uses standard IP technology in its products. The emphasis is placed on availability of products and services.

SICK always assumes the following prerequisites:

- The customer ensures the integrity and confidentiality of the data and rights affected by its own use of the aforementioned products.
- In all cases, the customer implements the appropriate security measures, such as network separation, firewalls, virus protection, and patch management.

2.6 Limitation of liability

Relevant standards and regulations, the latest technological developments, and our many years of knowledge and experience have all been taken into account when compiling the data and information contained in these operating instructions. The manufacturer accepts no liability for damage caused by:

- Non-adherence to the product documentation (e.g., operating instructions)
- Incorrect use
- Use of untrained staff
- Unauthorized conversions or repair
- Technical modifications
- Use of unauthorized spare parts, consumables, and accessories

With special variants, where optional extras have been ordered, or owing to the latest technical changes, the actual scope of delivery may vary from the features and illustrations shown here.

2.7 Modifications and conversions

NOTICE

Modifications and conversions to the device may result in unforeseeable dangers.

Interrupting or modifying the device or SICK software will invalidate any warranty claims against SICK AG. This applies in particular to opening the housing, even as part of mounting and electrical installation.

2.8 Requirements for skilled persons and operating personnel

WARNING
Risk of injury due to insufficient training.

Improper handling of the device may result in considerable personal injury and material damage.

- All work must only ever be carried out by the stipulated persons.

This product documentation refers to the following qualification requirements for the various activities associated with the device:

- **Instructed personnel** have been briefed by the operator about the tasks assigned to them and about potential dangers arising from improper action.
- **Skilled personnel** have the specialist training, skills, and experience, as well as knowledge of the relevant regulations, to be able to perform tasks delegated to them and to detect and avoid any potential dangers independently.
- **Electricians** have the specialist training, skills, and experience, as well as knowledge of the relevant standards and provisions, to be able to carry out work on electrical systems and to detect and avoid any potential dangers independently. The electrician must comply with the provisions of the locally applicable work safety regulation.

The following qualifications are required for various activities:

Table 1: Activities and technical requirements

Activities	Qualification
Mounting, maintenance	■ Basic practical technical training ■ Knowledge of the current safety regulations in the workplace
Electrical installation, device replacement	■ Practical electrical training ■ Knowledge of current electrical safety regulations ■ Knowledge of the operation and control of the devices in their particular application
Commissioning, configuration	■ Basic knowledge of the computer operating system used ■ Basic knowledge of the design and setup of the described connections and interfaces ■ Basic knowledge of data transmission
Operation of the device for the particular application	■ Knowledge of the operation and control of the devices in their particular application ■ Knowledge of the software and hardware environment for the particular application

2.9 Operational safety and particular hazards

Please observe the safety notes and the warnings listed here and in other chapters of this product documentation to reduce the possibility of risks to health and avoid dangerous situations.

WARNING
Electrical voltage!

Electrical voltage can cause severe injury or death.

- Work on electrical systems must only be performed by qualified electricians.
- The power supply must be disconnected when attaching and detaching electrical connections.
- The product must only be connected to a voltage supply as set out in the requirements in the operating instructions.
- National and regional regulations must be complied with.
- Safety requirements relating to work on electrical systems must be complied with.

WARNING
Risk of injury and damage caused by potential equalization currents!

Improper grounding can lead to dangerous equipotential bonding currents, which may in turn lead to dangerous voltages on metallic surfaces, such as the housing. Electrical voltage can cause severe injury or death.

- Work on electrical systems must only be performed by qualified electricians.
- Follow the notes in the operating instructions.
- Install the grounding for the product and the system in accordance with national and regional regulations.

3 Product description

3.1 Device view

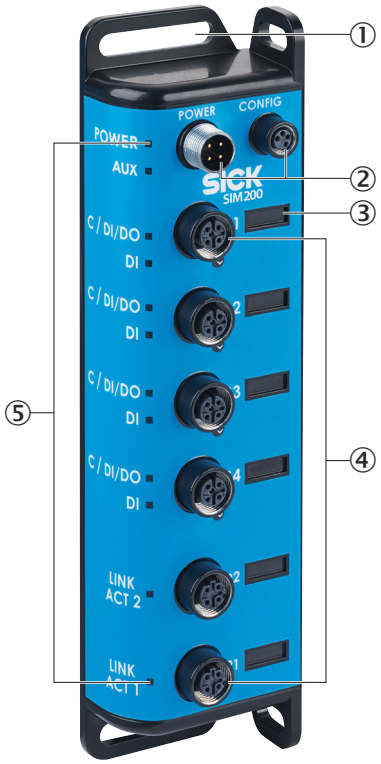


Figure 1: SIM200 device view

① Elongated drill holes for mounting
② Connection for power and configuration
③ Removable user-defined port labels
④ Connections for sensors and Ethernet
⑤ Status indicators

3.2 Functionality

The SIM200 Sensor Integration Machine – part of the SICK AppSpace eco-system – is opening up new possibilities for application solutions.

Data from IO-Link sensors and sensors with digital inputs and outputs can be evaluated, archived and transmitted.

The SICK AppSpace open software platform enables tailor-made application programs to be developed for demanding applications.

The HMI and data visualization features can be provided on any browser-enabled notebook, PC, or tablet. The application software (app) is developed in SICK AppStudio.

3.3 SICK AppSpace

Detailed instructions on the SICK AppStudio as well as programming the device can be found at supportportal.sick.com.

3.4 Preset Ethernet interfaces

NOTE

Preset IP address of the ETHERNET interfaces:

- ETHERNET P1/ P2: 192.168.0.1

Changing the IP address

The IP address can be changed using the SICK “SOPAS-ET” PC tool. This is described in detail in the “SIM Getting Started Guide”, which is available for download from the SICK AppSpace area of the SICK Support Portal.

4 Transport and storage

4.1 Transport

For your own safety, please read and observe the following notes:

NOTICE

Damage to the product due to improper transport.

- The device must be packaged for transport with protection against shock and damp.
- Recommendation: Use the original packaging as it provides the best protection.
- Transport should be performed by trained specialist staff only.
- The utmost care and attention is required at all times during unloading and transportation on company premises.
- Note the symbols on the packaging.
- Do not remove packaging until immediately before you start mounting.

4.2 Transport inspection

Immediately upon receipt in Goods-in, check the delivery for completeness and for any damage that may have occurred in transit. In the case of transit damage that is visible externally, proceed as follows:

- Do not accept the delivery or only do so conditionally.
- Note the scope of damage on the transport documents or on the transport company's delivery note.
- File a complaint.

NOTE

Complaints regarding defects should be filed as soon as these are detected. Damage claims are only valid before the applicable complaint deadlines.

4.3 Storage

Store the device under the following conditions:

- Do not store outdoors.
- Store in a dry area that is protected from dust.
- Do not expose to any aggressive substances.
- Protect from sunlight.
- Avoid mechanical shocks.
- Storage temperature: see "Technical data", page 24.
- For storage periods of longer than 3 months, check the general condition of all components and packaging on a regular basis.

5 Mounting

5.1 Overview of mounting procedure

NOTE
The mounting procedure described here for the device meets the requirements for use in the target system.

Additional or different requirements may become necessary in the laboratory and during preparation, and should be taken into account as necessary, see "Commissioning", page 20. If you have any questions or anything remains unclear in this regard, please contact our service team.

- Mounting the device.
- Connect the cables.
- Connecting peripheral devices.
- Connecting the voltage supply.

5.2 Scope of delivery

- SIM200
- 20 port labels
- Safety note
- Optional: ordered accessories

NOTE
For a list of cables suitable for use with the device, see:
supportportal.sick.com.

5.3 Preparing for mounting

Installation requirements

- Select the mounting site: Plan space requirements and sufficient distance from other devices. Be aware of the possibility of heat dissipation.
- Unpack the device and allow to acclimatize to avoid formation of condensation.
- Prepare vibration reduction measures, if necessary.

Preparing for mounting

1. Place the device at the mounting site.
2. Mark the mounting holes.
3. Proceed to drill the mounting holes.

5.4 Mounting the device

NOTE
The coating around the mounting screws must be removed for the ground connection to the housing.

- Set the device on the mounting site.
- Fasten device with two M6 screws (max. 0.8 Nm) and corresponding washers on opposite device sides.

NOTICE

Use self-locking or lock nuts on mounting sites that are exposed to vibrations to prevent the holding plates from loosening.

6 Electrical installation

6.1 Important notes

WARNING
Risk of injury and damage caused by electrical current!

Due to equipotential bonding currents, incorrect earthing can lead to the following dangers and faults: Voltage is applied to the metal housing, cable fires due to cable shields heating up, the product and other devices become damaged.

- Generate the same ground potential at all grounding points.

NOTICE

Equipment damage due to incorrect supply voltage!

- Only operate the device with the specified supply voltage.
- Please read the notes on electrical installation.

The connection of the network and IO-Link cable of the SIM200 must be voltage-free (U_V = 0 V). The following information must be observed, depending on the connection type:

- Even when the wiring is looped through, the total current of the module must not exceeded 4 A.
- An incorrect supply voltage may result in damage to the device. Operation is only permitted in a short-circuit protected system with max. 8 A.
- Only apply voltage/switch on the voltage supply (U_V > 0 V) once all electrical connections have been established.

6.2 Preparing the electrical installation

To carry out the electrical installation, you will need:

- Connection cables for the peripheral devices, including the corresponding data sheets
- Voltage supply cable
- If customers assemble the cables: crimping tool, ferrules, soldering iron, and other installation material

6.3 Assembling the cables (optional)

For a list of cables suitable for use with the device, see:

supportportal.sick.com or at www.sick.com.

Customer assembly of the cables is only necessary in special cases. Ensure a sufficient length of cable is provided, e.g. for strain-relief clamps.

NOTICE
Risk of damage/malfunction due to incorrect PIN assignment

Incorrect wiring of the male connectors/female connectors can lead to damage to or malfunctions in the system.

- Observe data sheets provided by the cable manufacturer.
- Observe the pin assignment.

6.4 Overview of connections

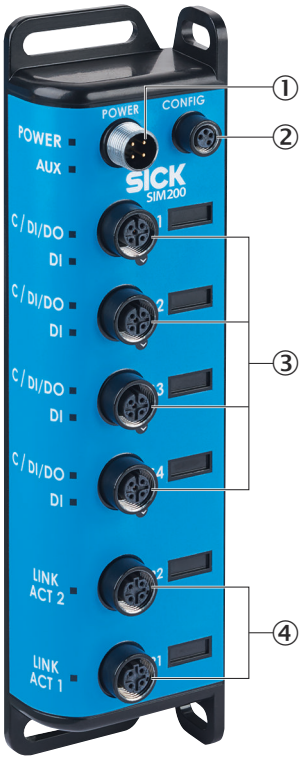


Figure 2: SIM200 connection overview

① POWER: Input of voltage supply

② CONFIG: Configuration with SOPAS ET

③ S1-S4: 4 x sensor connections for IO-Link sensors and sensors with digital inputs and outputs

④ P1-P2: 2 x Ethernet connections

6.5 Pin allocation of the connections

6.5.1 POWER

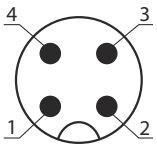


Table 2: POWER pin assignment, M12 - 4-pin, A-coded, male

PIN	Signal	Function
1	+24 V IN	IN1 supply voltage, max. 4 A
2	NC	Not connected
3	GND	Ground
4	NC	Not connected

6.5.2 CONFIG

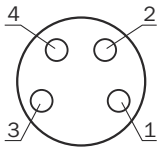


Table 3: CONFIG pin assignment, M8 – 4-pin, female

PIN	Signal	Function
1	+5 V IN	+5 V nominal
2	- Data	
3	+ Data	
4	GND	Ground

6.5.3 Sensor 1 - 4 / IO-Link

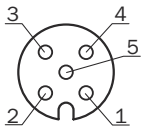


Table 4: Pin assignment S1 - S4 / IO-Link, M12 - 5-pin A-coded, female

PIN	Signal	Function
1	+ 24 V	Supply voltage for peripherals, configurable
2	Input 2	Switching input
3	GND	Ground
4	C/Q or input 1 / output 1	C/Q IO-Link or configurable digital input/output
5	NC	Not connected

6.5.4 Ethernet P1/ P2

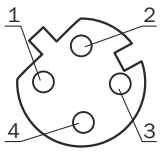


Table 5: P1/P2 pin assignment, M12 – 4-pin, A-coded, female

PIN	Signal	Function
1	TX +	Sender +
2	RX +	Receiver +
3	TX -	Sender -
4	RX -	Receiver -

6.6 Connecting peripheral devices

The device can be connected to a wide range of IO-Link sensors and sensors with digital inputs and outputs.

The required pin assignments can be found in the data sheets for the peripherals to be connected as well as in the relevant connection descriptions, see "Pin allocation of the connections", page 17.

1. If necessary, assemble connection cables, see "Preparing the cables".
2. Connect the cables to peripheral devices.
3. Route the cables to the device using installation materials (cable channels, cable ties, etc.). When doing so, pay attention to cable strain relief.
4. Connect cables to the relevant device connections.
5. Seal unused connections with dummy plugs.

6.7 Connecting voltage supply

NOTICE

Risk of damage to peripheral devices!

If peripheral devices are connected when the voltage supply is also applied, these devices can become damaged.

- Only connect peripheral devices when the voltage supply is disconnected.

1. Ensure that the voltage has been disconnected by the user.
2. Connect voltage supply cable(s) to the device.
3. Lay the cable(s) with strain relief.
4. Have the user connect the voltage supply.
5. Have the user activate the voltage.

7 Commissioning

7.1 Preparatory commissioning

Commissioning for preparatory purposes and under laboratory conditions differs in some respects from commissioning in the target system.

In general, all safety and hazard warnings applicable to mounting (see "Mounting", page 14) and electrical installation (see "Important information") must also be observed under laboratory conditions. In addition, further notes must be taken into consideration to guarantee the most effective preparation possible:

- Only connect those devices to the product that you want to configure or program.
- Operate the connected device in a controlled and contained network environment for the time being to check network communication if necessary.
- Note the company standards that apply to the use of inspection and testing devices.
- For initial programming, work under ideal conditions for sensor recognition.
- Use the largest possible deviations from these ideal conditions to check the programming with respect to its error tolerance and reliability, and to determine error limit values.

Procedure

1. Place the device on a non-slip base.
2. Connect the required peripheral devices, see "Connecting peripheral devices".
3. Connect the network connection.
4. Connect the voltage supply.
5. Switch on the voltage supply.

8 Operation

8.1 Status LEDs

When the device is operating, the operational status of the connections is indicated visually by status LEDs.

Using these status indicators, the operator can find out quickly and easily whether the device and the peripherals are working properly or whether any faults or errors have occurred.

Monitoring the visual indicators is part of the routine inspection carried out on the device and the machine/plant area into which the device is incorporated.

Meaning of symbols

Symbol	Meaning
	LED off
	LED on
	LED flashes

Designation	LED behavior	Description
POWER		Voltage not applied to the connection.
		Voltage applied.*
AUX		User-defined, configurable with AppSpace
		
S1 – S4 C/ DI/ DO		Pin 4: IO-Link communication active
		Pin 4: No IO-Link communication active
S1 – S4 DI		Additional digital input on pin 2
		No additional digital input on pin 2
P1/P2 LINK ACT 1 LINK ACT 2		Connection not established with Ethernet.
		Connection established with Ethernet.
		Data transmission via Ethernet

* Time delay before availability due to boot process (approx. 60 s)

9 Maintenance

9.1 Cleaning

NOTICE
Equipment damage due to improper cleaning.

Improper cleaning may result in equipment damage.

- Only use recommended cleaning agents and tools.
- Never use sharp objects for cleaning.

▶ The device must be cleaned regularly from the outside to guarantee heat dissipation and therefore operation. Clean using a dry towel or an industrial vacuum cleaner. Do not use cleaning agents.

9.2 Maintenance plan

During operation, the device works maintenance-free.

Depending on the assignment location, the following preventive maintenance tasks may be required for the device at regular intervals:

Table 6: Maintenance plan

Maintenance work	Interval	To be carried out by
Check device and connecting cables for damage at regular intervals.	Depends on ambient conditions and climate.	Specialist
Clean housing.	Depends on ambient conditions and climate.	Specialist

10 Decommissioning

10.1 Disposal

CAUTION

Risk of injury due to hot device surface.

The surface of the device can become hot during operation.

- Before commencing disassembly, switch off the device and allow it to cool down as necessary.

If a device can no longer be used, dispose of it in an environmentally friendly manner in accordance with the applicable country-specific waste disposal regulations. Do not dispose of the product along with household waste.

NOTICE

Danger to the environment due to improper disposal of the device.

Disposing of devices improperly may cause damage to the environment.

Therefore, observe the following information:

- Always observe the national regulations on environmental protection.
- Separate the recyclable materials by type and place them in recycling containers.

11 Technical data

NOTE

The relevant online data sheet for your product, including technical data, dimensional drawing, and connection diagrams can be downloaded, saved, and printed from the Internet:

- www.sick.com/SIM200

Please note: This documentation may contain further technical data.

11.1 Features

Feature	Parameter
Task	data recording, evaluation, and archiving
Supported devices (excerpt)	IO-Link sensors, sensors with digital inputs and digital outputs
Technology	Embedded hardware architecture: • ARM Cortex M7 + netX51
	Software: • Can be programmed within the SICK App-Space environment • SICK Interface & Algorithm API
RAM	512Mb (netX51)
Flash memory	4 GB
Programming software	SICK AppStudio
Sensor data processing	According to SICK Interface & Algorithm API

11.2 Interfaces

Feature	Parameter
ETHERNET	
Quantity	2 (with switch)
Data transmission rate	10/100 Mbit/s
Protocol	ICMP, TCP, UDP
IO-Link	
Quantity	4 (SENSOR S1 to S4)
Function	IO-Link master V1.1
Port class	A
Data transmission rate	max. 230 kBaud
Digital switching inputs/outputs	
S1 – S4	Input: 1 each Inputs/Outputs: 1 each (can be configured)
CONFIG	
Quantity	1
Function	USB, for configuration

11.3 Mechanics and electronics

Feature	Parameter
Electrical connection	POWER: 1 x M12, 4-pin male connector, A-coded CONFIG: M8, 4-pin female connector SENSOR S1 - S4, IO-Link master: 4 x M12, 5-pin female connector, A-coded ETHERNET: 2 x M12, 4-pin female connector, D-coded
Supply voltage	10 ... 30 V DC
Operating current	Must be limited by external power supply unit to max. 4 A
Power consumption	4.2 W max., without connected sensors
Power output	Max. 72 W total (all connections)
Output current	
SENSOR S1 - S4, IO	Max. output current to switching output pins: 200 mA
SENSOR S1 - S4, IO	Max. output current to power supply pins: 500 mA
Housing material	zinc
Housing color	Black
Protection class	III
Short-circuit protection	In accordance with VDE 0160
Weight	520 g
Dimensions (W x D x H)	213.9 x 57 x 38.3 mm

11.4 Ambient data

CAUTION
This equipment is not intended for use in residential areas and may not provide adequate protection against radio reception in these environments.

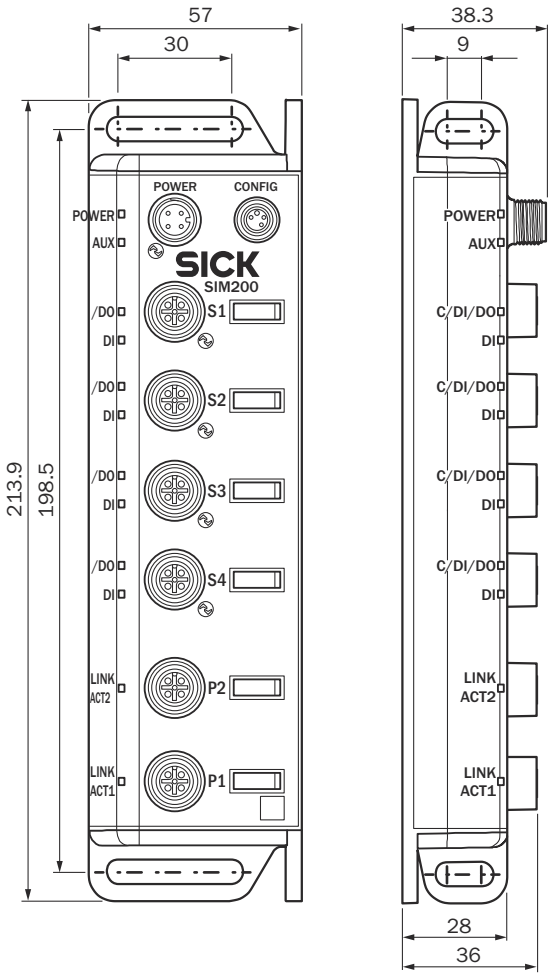
Feature	Parameter
Electromagnetic compatibility (EMC)	EN 61000-6-2 EN 61000-6-4
Vibration resistance	EN 60068-2-6
Shock resistance	EN 60068-2-27
Enclosure rating	IP67 (requires blind plugs to be inserted into unused connections)[1]
Ambient operating temperature	-40 °C ... +55 °C
Storage temperature	-40 °C ... +75 °C
Permissible relative humidity	90%, non-condensing

1 When cables are not attached, the connection caps delivered with the device must be tightened with 0.35 Nm.

12 Annex

12.1 Dimensional drawings

All measurements in mm.



12.2 Licenses

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This program is provided for general use without warranty of any kind. This warranty disclaimer also extends to the implicit assurance of marketability or suitability of the program for a particular purpose.

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