

SIG100, SIG200

THE SIMPLE SOLUTION FOR AN INTELLIGENT SENSOR SYSTEM

Integration products

SICK
Sensor Intelligence.

The Sensor Integration Gateways product family represents the simple connection and networking of different sensors in the most common Ethernet-based fieldbus environments and higher-level systems as well as the intuitive creation of small sensor systems using the drag-and-drop logic editor.



Networking production and control processes

The SIG100 is an IO-Link sensor hub for recording and monitoring digital switching signals. In addition to its pure data transmission function, the SIG100 also has an integrated logic editor that can be used to configure logic functions using drag-and-drop, such as AND/OR, counters, and switching delays, and the aggregated results can be transmitted to any IO-Link master via IO-Link.

The main function of the SIG200 is that of an intelligent IO-Link master that converts sensor data into one or several protocols to make the data available to higher-level systems. SIG200 records all of the sensor data that is transmitted via IO-Link or standard I/O signals. This data is firstly converted into a fieldbus protocol for further processing in the PLC, in parallel to this, these signals can also be made accessible via a REST interface e.g. in a cloud. Both communication channels use the same physical port on the SIG200 for this.

IO-Link

IO-Link – intelligent communication on the sensor level

The world's first standardized IO technology (IEC 61131-9) means sensors can play an active role in end-to-end automation networks. The sensors record real operational statuses, turn these into digital data, and share them with the process controller. In addition, IO-Link offers countless advantages, such as simple device configuration via the SOPAS engineering tool, automatic parameter saving of IO-Link slaves, as well as automated device identification.

SICK offers a comprehensive IO-Link portfolio for many different types of sensors (see [Smart Sensors](#)). With the SIG100 and SIG200, quick and easy parameterization and the integration of sensors and different sensor technologies, as well as the creation of small sensor systems without any programming effort become reality.

VIRTUALLY LIMITLESS COMMUNICATION

Using IO-Link as the crucial communication technology of the Sensor Integration Gateway opens up new opportunities for the communication and data transparency of the individual switching signals from the lowest field level up to control systems and the IT world, which are all components of a single automation network. This is an important aspect, as networked production and control processes in complex machine environments are key to the industrial future and are what is making Industry 4.0 possible in the first place.



With two communication channels, sensor data is transmitted wherever it needs to be

The simple wiring of IO-Link sensors and standard I/O signals with SIG100 and SIG200 results in a cost-efficient connection to the fieldbus. With DualTalk, there are also two parallel communication channels available in the SIG200. The edge computing channel is used for the communication to the control via the fieldbus, while the cloud computing channel transports data via the REST API to the cloud or to any Industry 4.0 application.

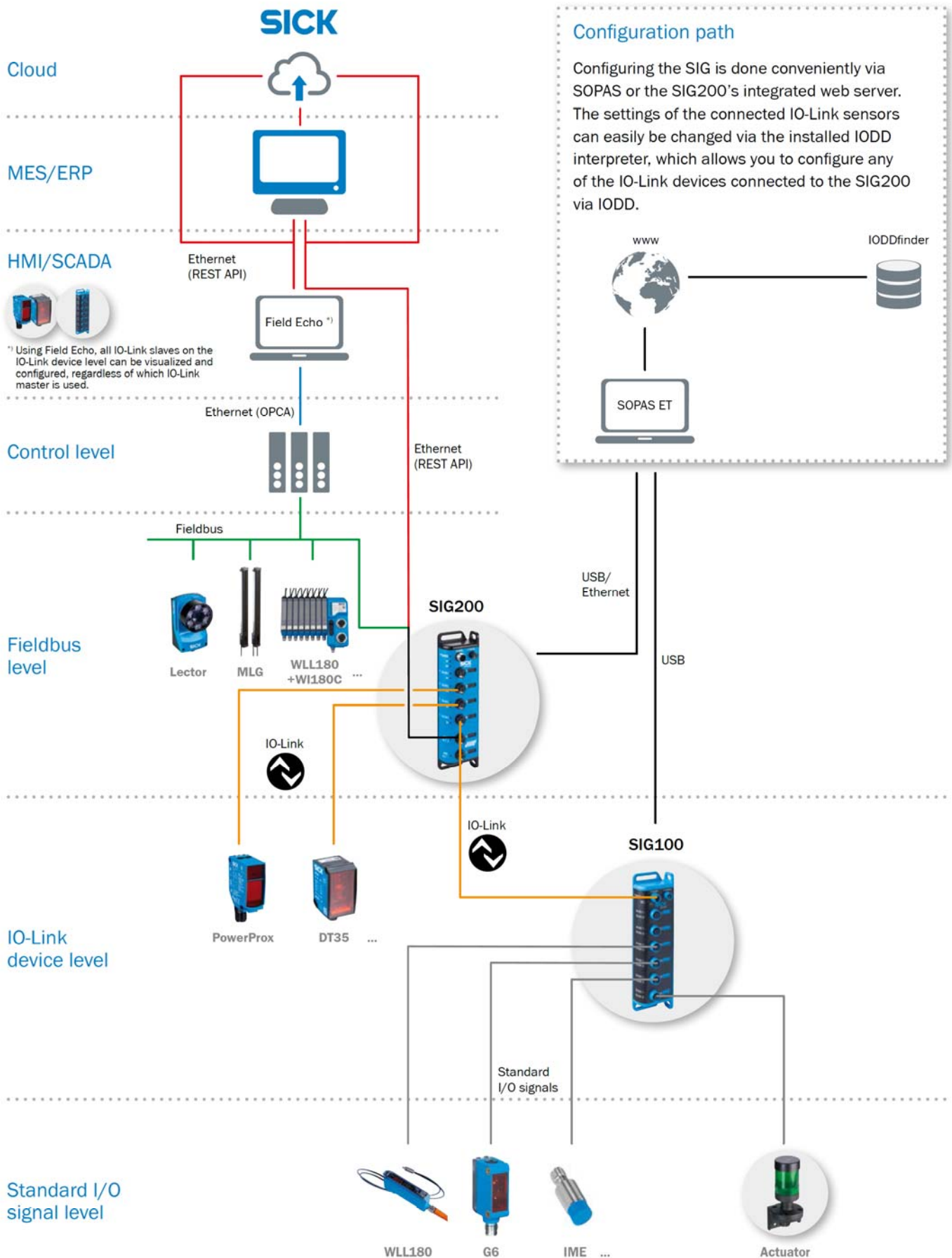
Drag-and-drop logic editor and IODD interpreter

SIG100 and SIG200 can very easily be connected to the SOPAS user interface using the USB port on the device. There, not only the devices themselves, but also the logic functions can be created using drag-and-drop and several of the connected sensors and actuators. Logic functions such as counter or timer functions make even the simplest sensors intelligent. This leads to decentralized intelligence directly in the application, without time-consuming PLC programming. The SIG200 user interface can then be called up via the web server without installing an additional program. The user interface allows for the configuration of any IO-Link device using the IODD, among other things.

Reduced wiring work saves time

The easy connection of both binary and IO-Link devices to the SIG100 and SIG200 allows for a unified and efficient wiring concept with full data transparency of each individual standard I/O and IO-Link signal.





You can find SICK's comprehensive sensor portfolio at → www.sick.com

SIG100, SIG200

SIG100 – Creating independent sensor systems has never been so easy!



At a glance

- Six M12 ports, which can be individually configured as digital inputs or outputs
- Merging of up to 12 digital input or output signals in one IO-Link slave message

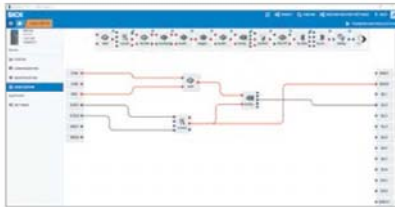
Your benefits

- Intuitive configuration of the SIG100 and the connected sensor-actuator system using logic functions (e.g. AND links, counters, timer functions, etc.) via drag-and-drop in the SOPAS logic editor



- Easy and intuitive parameterization of the SOPAS graphical user interface via USB
- The rugged IP67 plastic housing with two-sided fixing concept allows for flexible mounting with standard M6 screws for using the SIG100 in industrial environments
- The end-to-end wiring concept consists of different sensors, actuators, SIG100, and SIG200 and results in quick commissioning and transparent data integration on the fieldbus or cloud level

→ www.sick.com/SIG100



SIG200 – An IO-Link master for the clever networking of smart Sensor Intelligence



At a glance

- 4 IO-Link master ports (port class A) – can be parameterized as digital input, digital output, or IO-Link
- Easy and intuitive parameterization of the SOPAS graphical user interface via USB or over the web server via Ethernet
- DualTalk: Access to sensor data via the industrial Ethernet and also from the enterprise level in parallel

Your benefits

- Take advantage of the benefits of SICK's Smart Sensors by aggregating this data and communicating it to higher-level systems
- Seamless PLC integration and data transparency
- Industry 4.0 Ready – Access sensor data from the enterprise level



- Small sensor actuator systems can be created quickly and easily using drag-and-drop in the integrated logic editor
- The rugged metal housing with protection class IP67 and two-sided fixing concept with standard M6 screws allows for flexible mounting for using the SIG200 in industrial environments

- Economical entry when looking to get started with IO-Link devices
- The IODD interpreter in the SOPAS user interface, or the web server, allow for intuitive parameterization and setup with access to all parameters of IO-Link devices (port class A)

→ www.sick.com/SIG200

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