SENSOR SOLUTIONS: FOR MORE EFFICIENT AUTOMATION

Sensors, systems, and services

SICK
Sensor Intelligence.
EASY INTEGRATION INTO YOUR AUTOMATION WORLD

In the age of information easy, fast, and manageable access to information is becoming a strategic asset. Our intelligent sensor solutions and safety controllers provide different integration technologies that allow easy access – from HMI, PLC, and engineering tools – to data from our sensors. In this way, we support you towards solving your application rapidly and easily and increase machine availability with a continuous diagnostic concept.

PLC and engineering tool integration

<table>
<thead>
<tr>
<th>Fieldbus and network solutions</th>
</tr>
</thead>
</table>

**Function Blocks**

<table>
<thead>
<tr>
<th>IO-Link devices</th>
<th>Vision sensors</th>
<th>Absolute encoders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level sensors</td>
<td>Inspector</td>
<td>AFS60/AFM60</td>
</tr>
<tr>
<td>Pressure sensors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presence detection sensors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance sensors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bar code scanners, Image-based code readers</td>
<td>RFID</td>
<td>Laser volume flowmeter</td>
</tr>
<tr>
<td>1D und 2D</td>
<td>RFH6xx, RFU62x, RFU63x</td>
<td>Bulkscan® LMS511</td>
</tr>
</tbody>
</table>

**OPC server**

OPC technology is used to exchange data between field devices and Windows-based applications. The SOPAS OPC server from SICK follows the OPC DA specification and thus can be used on Windows operating systems.

**Web server**

The SOPAS web server from SICK can be used wherever there is a web browser available. The web server is distinguished by its ability to both carry out pure data exchange and also to provide visualizations for the devices, which is a big advantage, particularly for vision sensors.

**Fieldbus and network solutions**

Our fieldbus and network solutions allow SICK sensors and safety controllers to be connected to all conventional automation systems. This guarantees an easy and fast access to the available data.

Function blocks

The SICK function blocks allow you to quickly establish acyclic communication to our sensors within your PLC program. Additionally, complex and variable process data can be parsed into their individual information contents without programming effort.

**DTM (Device Type Manager)**

FDT/DTM is a cross-manufacturer concept with which configuration and diagnosis of devices from different manufacturers can be done with just one engineering tool.

**TCI (Tool Calling Interface)**

The Tool Calling Interface (TCI) makes it possible to call up a tool for carrying out parameterization and diagnosis of a field device via the existing communication infrastructure.

HMI integration

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Photoelectric sensors
- Miniature photoelectric sensors
- Small photoelectric sensors
- Compact photoelectric sensors
- Cylindrical photoelectric sensors
- Fiber-optic sensors and fibers
- MultiTask photoelectric sensors

Proximity sensors
- Inductive proximity sensors
- Capacitive proximity sensors
- Magnetic proximity sensors

Magnetic cylinder sensors
- Position sensors
- Sensors for T-slot cylinders
- Sensors for C-slot cylinders
- Sensor adapters for other cylinder types

Registration sensors
- Contrast sensors
- Markless sensors
- Color sensors
- Luminescence sensors
- Fork sensors
- Array sensors
- Register sensors
- Glare sensors
- Pattern sensors

Automation light grids
- Measuring automation light grids
- Switching automation light grids

Opto-electronic protective devices
- Safety laser scanners
- Safety light curtains
- Safety camera systems
- Multiple light beam safety devices
- Single-beam photoelectric safety switches
- Mirror columns and device columns
- Upgrade kits for opto-electronic protective devices
Safety switches
- Electro-mechanical safety switches
- Non-contact safety switches
- Safety locking devices
- Safety command devices

sens:Control – safe control solutions
- Safe sensor cascade
- Safety controllers
- Motion Control safety controllers
- Safety relays

Gas analyzers
- Gas transmitters
- In-situ gas analyzers
- Extractive gas analyzers

Dust measuring devices
- Scattered light dust measuring devices
- Transmittance dust measuring devices
- Gravimetric dust measuring devices

Analyzer solutions
- CEMS solutions
- Process solutions
- Control units

Traffic sensors
- Tunnel sensors
- Overheight detectors
- Visual range measuring devices
Ultrasonic gas flow measuring devices
- Volume flow measuring devices
- Mass flow measuring devices
- Flow velocity measuring devices
- Gas flow meters
- Flow computers

Identification solutions
- Image-based code readers
- Bar code scanners
- RFID
- Hand-held scanners

Vision
- 2D vision
- 3D vision

Distance sensors
- Displacement measurement sensors
- Mid range distance sensors
- Long range distance sensors
- Linear measurement sensors
- Ultrasonic sensors
- Optical data transmission
- Position finders

Detection and ranging solutions
- 2D LiDAR sensors
- 3D LiDAR sensors
- Radar sensors

Motor feedback systems
- Motor feedback system rotary HIPERFACE®
- Motor feedback system rotary HIPERFACE DSL®
- Motor feedback system rotary incremental
- Motor feedback system rotary incremental with commutation
- Motor feedback system linear HIPERFACE®
**Encoders and inclination sensors**
- Absolute encoders
- Incremental encoders
- Linear encoders
- Wire draw encoders
- Safety encoders
- Inclination sensors
- Measuring wheel encoders

**Fluid sensors**
- Level sensors
- Pressure sensors
- Flow sensors
- Temperature sensors

**Integration products**
- Sensor Integration Machine
- 4Dpro connectivity

**System solutions**
- Customized analyzer systems
- Driver assistance systems
- Robot guidance systems
- Object detection systems
- Profiling systems
- Quality control systems
- Security systems
- Track and trace systems
- Functional safety systems

**Software products**
- SICK AppSpace
- Analytics Solutions
- Integrated Managing Solutions

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- **Verification and optimization**: Safe and regularly inspected
- **Upgrade and retrofits**: Easy, safe, and economical
- **Training and education**: Practical, focused, and professional

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SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 8,000 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, we are always close to our customers. 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 various 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 round out 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:
Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Contacts and further sites → www.sick.com