SAM
Inductive proximity sensors

The simple and intelligent way of speed monitoring
Whether as a classic speed monitor or innovative acceleration monitor, the SAM MultiTask inductive sensor simplifies the monitoring of speed-dependent processes with a fast response time, large monitoring range, and intelligent start-up delay. Due to acceleration monitoring, the SAM sensor is able to detect changes faster.

**Versatile:**
pulse and acceleration monitoring

Wherever drives and processes are monitored for pulse sequences, speed or slippage, the new SAM inductive sensor is the ideal solution:
- Wire break monitoring in wire manufacturing machines
- V-belt monitoring in fans
- Speed monitoring of spindles
- Thread break monitoring on sewing machines
- Torn belt monitoring on conveyor belts

**Integrated:**
evaluation for direct monitoring

The SAM inductive sensor monitors speed and acceleration using metal targets for a non-contact solution. The pulse sequence produced is compared to an adjustable threshold directly in the sensor and a switching signal output to the control if the threshold is not reached. The PLC is not involved in signal processing and does not require an expensive counter board. As a result, low-cost, efficient monitoring is ensured even for fast processes with high pulse sequences.
Tried and tested: classic pulse monitoring

When the speed monitoring mode is used, SAM’s high performance allows it to evaluate a range of 6 to 12,000 pulses/min, which is perfect for even the fastest processes. Individual adaptations of the switching thresholds ensure a reliable output signal and help to produce extremely reliable monitoring, which enhances safety.

Fast: innovative acceleration monitoring

When used as an acceleration monitor, SAM is always one step ahead. This sensor doesn’t monitor the speed of a pulse sequence, but instead monitors the deceleration in the range 0.1 to 2 pulses/s² up to a maximum pulse sequence of 1,200 pulses/min. As a result, it detects changes in the process as soon as they occur. In the past, the speed of a monitored flywheel had to drop to the set threshold before it could be detected if a V-belt broke. Now, the SAM sensor detects the deceleration of the flywheel immediately and instantly issues an alarm. This saves valuable seconds when stopping the machine and prevents costly rejects and damage.

Format and speed changes in machines are simple due to the acceleration monitoring mode. Since SAM only monitors changes in the process but not the absolute speed of the pulse sequence, no threshold values need to be adapted when the speed changes. This results in time and cost savings, as well as increased flexibility.

Straightforward: mounting, programming and application

The additional pulse output always indicates the actuation state of the sensor – mounting is simple and quick to perform.

An intelligent start-up delay mode adapts automatically to the start-up time that the machine requires. This simplifies commissioning and automatically compensates for changes in the machine start-up time.

The factory-set acceleration monitoring mode works independently from the process speed. This means that SAM is ideally pre-configured for a variety of applications. Simply connect and get started.

Application-specific adaptations for operating modes, limits or start-up delay are easy to perform using a PC – even duplicating sensor settings takes only a few seconds.

Flexible: SAM is made for the future

Whether it is used as a simple “stand-alone” device or integrated in an IO-Link environment, SAM combines all capabilities in a single unit. It can operate as a classic speed monitor device today and output the measurement data via IO-Link tomorrow. Embedded in an IO-Link environment, SAM can even transfer speed and acceleration values. SAM makes visionary solutions a reality today.
The simple and intelligent way of speed monitoring

Product description
The SAM sensor is the simple and intelligent way of speed monitoring with an additional IO-Link interface. SAM can be used as a classic speed monitor or innovative acceleration monitor with a revolutionary speed-independent monitoring function. It checks if an adjustable speed or acceleration threshold is crossed and provides a switching signal. SAM is setting new standards and revolutionizing commissioning tasks and fields of application thanks to its fast response time, monitored range of up to 12,000 pulses per minute and intelligent start-up delay.

At a glance
- Speed and acceleration monitoring
- Monitoring range: 6 to 12,000 pulses/min. and 0.1 to 2 pulses/sec.²
- Switching and pulse output
- Intelligent start-up delay
- Speed monitoring can be flexibly configured via two thresholds
- Flexible sensor settings, monitoring, extended diagnostics, and visualization thanks to IO-Link
- Types M18 and M30
- Sensing ranges of up to 10 mm flush

Your benefits
- Speed-independent detection of speed changes
- Faster detection of speed changes than conventional speed monitors
- No readjustment after speed changes necessary
- Precise and convenient configuration via software
- IO-Link provides easy data access from the PLC
- No time-consuming, individual configuration of start-up delay feature necessary
- Reliable output signal thanks to adjustable speed thresholds (hysteresis)
- No expensive counter cards necessary in PLC

Additional information
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For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.

www.mysick.com/en/SAM
# Detailed technical data

## Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>Cylindrical</td>
<td></td>
</tr>
<tr>
<td>Thread size</td>
<td>M18 x 1</td>
<td>M30 x 1.5</td>
</tr>
<tr>
<td>Sensing range $S_{n}$</td>
<td>7 mm</td>
<td>10 mm</td>
</tr>
<tr>
<td>Assured sensing range $S_{a}$</td>
<td>5.6 mm</td>
<td>8.1 mm</td>
</tr>
<tr>
<td>Installation type</td>
<td>Flush</td>
<td></td>
</tr>
<tr>
<td>Output type</td>
<td>PNP</td>
<td></td>
</tr>
<tr>
<td>Output function</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Output $Q_{imp}$</td>
<td>Pulse output (The pulse sequence corresponds to the damping frequency)</td>
<td></td>
</tr>
<tr>
<td>Output $Q$</td>
<td>Output type (dependant on the adjusted threshold)</td>
<td></td>
</tr>
<tr>
<td>Electrical wiring</td>
<td>DC 4-wire</td>
<td></td>
</tr>
<tr>
<td>Adjustment range speed (2 limit values) $^{1}$</td>
<td>6 ... 12,000 impulses / min</td>
<td></td>
</tr>
<tr>
<td>Adjustment range acceleration (1 limit value) $^{2}$</td>
<td>0.1 ... 2 impulses / sec$^2$</td>
<td></td>
</tr>
<tr>
<td>Time delay, adjustable</td>
<td>Mode 0: No start-up delay</td>
<td>Mode 1: 0 ... 254 sec., adjustable</td>
</tr>
<tr>
<td></td>
<td>Mode 2: When reaching the upper threshold</td>
<td></td>
</tr>
<tr>
<td>Enclosure rating $^{3}$</td>
<td>IP 67</td>
<td></td>
</tr>
</tbody>
</table>

$^{1}$ Up to a max. pulse sequence of 12,000 pulses / min.
$^{2}$ Up to a max. pulse sequence of 1,200 pulses / min.
$^{3}$ According to EN 60529.

## Mechanics/electronics

<table>
<thead>
<tr>
<th>Feature</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>10 V DC ... 30 V DC</td>
<td></td>
</tr>
<tr>
<td>Ripple</td>
<td>$\leq 10 %$</td>
<td></td>
</tr>
<tr>
<td>Voltage drop</td>
<td>$\leq 2.5$ V</td>
<td></td>
</tr>
<tr>
<td>Current consumption $^{4}$</td>
<td>$\leq 35$ mA</td>
<td></td>
</tr>
<tr>
<td>Hysteresis $^{5}$</td>
<td>$5 %$ ... $15 %$</td>
<td></td>
</tr>
<tr>
<td>Repeatability $^{5,4}$</td>
<td>$\leq 2 %$</td>
<td></td>
</tr>
<tr>
<td>Temperature drift (of $S_{n}$)</td>
<td>$\pm 10 %$</td>
<td></td>
</tr>
<tr>
<td>EMC</td>
<td>According to EN 60947-5-2</td>
<td></td>
</tr>
<tr>
<td>Output current $I_a$</td>
<td>$\leq 100$ mA</td>
<td></td>
</tr>
<tr>
<td>Connection type</td>
<td>Connector M12, 4-pin</td>
<td></td>
</tr>
<tr>
<td>Short-circuit protection</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Reverse polarity protection</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Power-up pulse protection</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Shock/vibration</td>
<td>30 g, 11 ms/10 Hz ... 55 Hz, 1 mm</td>
<td></td>
</tr>
<tr>
<td>Status indicator $Q_{imp}$</td>
<td>LED, yellow</td>
<td></td>
</tr>
<tr>
<td>Status indicator $Q$</td>
<td>LED, blau</td>
<td></td>
</tr>
<tr>
<td>Ambient operating temperature</td>
<td>$-25 \degree C$ ... $+75 \degree C$</td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>Metal, Nickel-plated brass</td>
<td></td>
</tr>
<tr>
<td>Housing cap material</td>
<td>Plastic, PA6</td>
<td></td>
</tr>
<tr>
<td>Tightening torque, max.</td>
<td>$\leq 40$ Nm</td>
<td>$\leq 100$ Nm</td>
</tr>
</tbody>
</table>

$^{1}$ Without load.
$^{2}$ Of $S_{m}$.
$^{3}$ $Ub$ and $Ta$ constant.
$^{4}$ Of $Sr$.
$^{5}$ Of $S_{n}$.
IO-Link

| Minimum response time          | Mode acceleration monitoring 1 sec  
|                               | Mode speed monitoring 50 ms         |
| Factory setting               | Operating mode: acceleration monitoring  
|                               | Threshold acceleration: 1 pulse/sec² 
|                               | Start-up delay mode: time delay      |
|                               | Upper/lower threshold speed: 200/300 pulses/min |
|                               | Time delay: 5 sec                   |
| Fieldbus integration          | IO-Link V1.0                        |
| Mode                          | COM 2 (38k4)                        |
| Cycle time                    | 5 ms                                |
| Process data length           | 16 Bit                             |
| Process data structure        | 1 bit pulse output, 1 bit switching output, 14 bit measured value |

Reduction factors

<table>
<thead>
<tr>
<th>Material</th>
<th>Reduction factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon steel St37 (Fe)</td>
<td>1</td>
</tr>
<tr>
<td>Stainless steel (V2A, 304)</td>
<td>0.8</td>
</tr>
<tr>
<td>Aluminum (Al)</td>
<td>0.45</td>
</tr>
<tr>
<td>Copper (Cu)</td>
<td>0.4</td>
</tr>
<tr>
<td>Brass (Br)</td>
<td>0.4</td>
</tr>
</tbody>
</table>

Note: The values are reference values which may vary

Ordering information

SAM18
- Output function: NO
- Output type: PNP
- Connection: Connector M12, 4-pin

<table>
<thead>
<tr>
<th>Sensing range $S_s$</th>
<th>Speed range</th>
<th>Acceleration range</th>
<th>Connection diagram</th>
<th>Model name</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm</td>
<td>6 ... 12,000 impulses / min</td>
<td>0.1 ... 2 impulses / sec²</td>
<td>Cd-226</td>
<td>IMC18-07BP02Z05A05</td>
<td>1061987</td>
</tr>
</tbody>
</table>

SAM30
- Output function: NO
- Output type: PNP
- Connection: Connector M12, 4-pin

<table>
<thead>
<tr>
<th>Sensing range $S_s$</th>
<th>Speed range</th>
<th>Acceleration range</th>
<th>Connection diagram</th>
<th>Model name</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mm</td>
<td>6 ... 12,000 impulses / min</td>
<td>0.1 ... 2 impulses / sec²</td>
<td>Cd-226</td>
<td>IMC30-07BP02Z05A05</td>
<td>1061704</td>
</tr>
</tbody>
</table>
**Inductive proximity sensors**

**Inductive MultiTask-Sensors**

**SAM**

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**Dimensional drawings**

**SAM18**

- Connection
- LED indicator
- Fastening nuts (2 x); 24 mm hex, metal

**SAM30**

- Connection
- LED indicator
- Fastening nuts (2 x); 36 mm hex, metal

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**Connection diagram**

**Cd-226**

- Connection
- LED indicator
- Fastening nuts (2 x); 24 mm hex, metal

---

**Installation note**

**Flush installation**

**Opposite installation**

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**Table**

<table>
<thead>
<tr>
<th>Installation type</th>
<th>Electrical wiring</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMC18-07BPDZC05A05</td>
<td>Bündig DC 4-wire</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>56</td>
</tr>
<tr>
<td>IMC30-10BPDZC05A05</td>
<td>Bündig DC 4-wire</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>80</td>
</tr>
</tbody>
</table>
### Configuration

| Operating mode       | • Speed monitoring  
<table>
<thead>
<tr>
<th></th>
<th>• Acceleration monitoring</th>
</tr>
</thead>
</table>
| Start-up delay modes| • Off  
|                     | • Time delay  
|                     | • Upper limit |
| Limit values        | • Upper speed limit  
|                     | • Lower speed limit  
|                     | • Acceleration |

#### Speed monitoring
Switching signal is activated when the upper speed threshold set for the pulse sequence is exceeded.

![Speed monitoring diagram](image)

#### Acceleration monitoring
Switching signal is activated when the acceleration threshold set for the change in pulse sequences is exceeded.

![Acceleration monitoring diagram](image)
Start-up delay

The start-up delay is activated when the operating voltage is applied.

**Off:**
Start-up delay is not active.

**Time delay:**
The start-up delay activates the switching output for a time delay within a programmable range from 0 to 254 s.

**Upper limit:**
The start-up delay activates the switching output until the upper speed threshold is reached.

Limit values

**Upper speed limit:**
Switching output Q is activated when the upper threshold value is exceeded. The lower threshold value can range from 6 to 12,000 pulses/min.

**Lower speed limit:**
Switching output Q is activated when the deceleration value is exceeded. The lower threshold value can range from 6 to 12,000 pulses/min.

**Acceleration:**
Switching output Q is activated when the deceleration value is exceeded. The deceleration value can range from 0.1 to 2 pulses/min.

Example applications

SAM monitors conveyor belt speeds
SAM works as a wire break monitor on a wire manufacturing machine
### Recommended Accessories

#### IO-Link module

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IO-Link-Master, IO-Link field module, DC 18 V ... 30 V, IP 55, IP 67</td>
<td>IOLSHPB-P3104R01</td>
<td>6039728</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USB Master for IO-Link V1.1 with Power supply and USB cable</td>
<td>IOLA2US-D1101 1)</td>
<td>1061790</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Available from 12/2013.

#### Mounting brackets/plates

##### Mounting brackets

<table>
<thead>
<tr>
<th>Figure</th>
<th>Material</th>
<th>Description</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Steel, zinc coated</td>
<td>Mounting plate for M18 sensors</td>
<td>BEF-WG-M18</td>
<td>5321870</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Steel, zinc coated</td>
<td>Mounting plate for M30 sensors</td>
<td>BEF-WG-M30</td>
<td>5321871</td>
<td>-</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>Steel, zinc coated</td>
<td>Mounting bracket, M18 thread</td>
<td>BEF-WN-M18</td>
<td>5308446</td>
<td>●</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Steel, zinc coated</td>
<td>Mounting bracket, M30 thread</td>
<td>BEF-WN-M30</td>
<td>5308445</td>
<td>-</td>
<td>●</td>
</tr>
</tbody>
</table>

#### Terminal and alignment brackets

##### Alignment brackets

<table>
<thead>
<tr>
<th>Figure</th>
<th>Material</th>
<th>Description</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plastic</td>
<td>Mounting bracket with ball-and-socket</td>
<td>BEF-WN-M18-ST02</td>
<td>5312973</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

##### Terminal brackets

<table>
<thead>
<tr>
<th>Figure</th>
<th>Material</th>
<th>Description</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plastic (PA12), glass-fiber reinf.</td>
<td>Clamping block for round sensors M18, without fixed stop</td>
<td>BEF-KH-M18</td>
<td>2051481</td>
<td>●</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clamping block for round sensors M18, with fixed stop</td>
<td>BEF-KHF-M18</td>
<td>2051482</td>
<td>●</td>
<td>-</td>
</tr>
</tbody>
</table>
## Plug connectors and cables

### Connecting cable (female connector-open) M12, 4-pin, PUR, halogen-free

- **Cable material:** PUR, halogen-free
- **Connector material:** TPU
- **Description:** IP 65, IP 68, IP 69K

<table>
<thead>
<tr>
<th>Figure</th>
<th>Connection type head A</th>
<th>Connection type head B</th>
<th>Connecting cable</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>Female connector, M12, 4-pin, straight</td>
<td>Cable, open conductor heads</td>
<td>2 m, 4-pole</td>
<td>DOL-1204-G02MC</td>
<td>6025900</td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>Female connector, M12, 4-pin, angled</td>
<td>Cable, open conductor heads</td>
<td>2 m, 4-pole</td>
<td>DOL-1204-W02MC</td>
<td>6025903</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>

### Connecting cable (female connector-open) M12, 4-pin, PVC

- **Cable material:** PVC
- **Connector material:** TPU
- **Description:** IP 67

<table>
<thead>
<tr>
<th>Figure</th>
<th>Connection type head A</th>
<th>Connection type head B</th>
<th>Connecting cable</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td>Female connector, M12, 4-pin, straight</td>
<td>Cable, open conductor heads</td>
<td>2 m, 4-pole</td>
<td>DOL-1204-G02M</td>
<td>6009382</td>
<td><img src="image8.png" alt="Image" /></td>
<td><img src="image9.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image10.png" alt="Image" /></td>
<td>Female connector, M12, 4-pin, angled</td>
<td>Cable, open conductor heads</td>
<td>2 m, 4-pole</td>
<td>DOL-1204-W02M</td>
<td>6009383</td>
<td><img src="image11.png" alt="Image" /></td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
</tbody>
</table>

### Female connector (ready to assemble) M12, 4-pin

- **Connector material:** PBT
- **Description:** IP 67

<table>
<thead>
<tr>
<th>Figure</th>
<th>Connection type head A</th>
<th>Connection type head B</th>
<th>Model name</th>
<th>Part no.</th>
<th>SAM18</th>
<th>SAM30</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image13.png" alt="Image" /></td>
<td>Female connector, M12, 4-pin, straight</td>
<td>Screw-type terminals</td>
<td>DOS-1204-G</td>
<td>6007302</td>
<td><img src="image14.png" alt="Image" /></td>
<td><img src="image15.png" alt="Image" /></td>
</tr>
<tr>
<td><img src="image16.png" alt="Image" /></td>
<td>Female connector, M12, 4-pin, angled</td>
<td>Screw-type terminals</td>
<td>DOS-1204-W</td>
<td>6007303</td>
<td><img src="image17.png" alt="Image" /></td>
<td><img src="image18.png" alt="Image" /></td>
</tr>
</tbody>
</table>
Dimensional drawings accessories

Inductive proximity sensors
Inductive MultiTask-Sensors

IO-Link module
IOLSHPB-P3104R01

- Bus IN
- Bus OUT
- Power supply IN
- Power supply OUT
- Port 1...4
- Bus adress rotary switch

Mounting brackets/plates
BEF-WG-M18
BEF-WG-M30

Subject to change without notice
Plug connectors and cables

**DOL-1204-GxxM/DOL-1204-GxxMC**

- 3/blu
- 4/blk
- 2/wht
- 1/bm

**DOL-1204-WxxM**

- 3/blu
- 4/blk
- 2/wht
- 1/bm

**DOL-1204-WxxMC**

- 3/blu
- 4/blk
- 2/wht
- 1/bm

**DOS-1204-G**

- Cable diameter 3 to 6.5 mm (0.12 to 0.26)

**DOS-1204-W**

- Cable diameter 3 to 6.5 mm (0.12 to 0.26)
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Upgrade & Retrofits
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Training & Education
Employee qualification for increased competitiveness
With a staff of more than 6,000 and over 40 subsidiaries and representations worldwide, SICK is one of the leading and most successful manufacturers of sensor technology. The power of innovation and solution competency have made SICK the global market leader. No matter what the project and industry may be, talking with an expert from SICK will provide you with an ideal basis for your plans – there is no need to settle for anything less than the best.

- Non-contact detecting, counting, classifying, positioning and measuring of any type of object or media
- Accident and operator protection with sensors, safety software and services
- Automatic identification with barcode and RFID readers
- Laser measurement technology for detecting the volume, position and contour of people and objects
- Complete system solutions for analysis and flow measurement of gases and liquids

SICK LifeTime Services – for safety and productivity
- Application centers in Europe, Asia and North America for the development of system solutions under real-world conditions
- E-Business Partner Portal www.mysick.com – price and availability of products, requests for quotation and online orders

Worldwide presence with subsidiaries in the following countries:

- Australia
- Belgium/Luxembourg
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- France
- Great Britain
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- Israel
- Italia
- Japan
- México
- Nederland
- Norge
- Österreich
- Polska
- România
- Russia
- Schweiz
- Singapore
- Slovenija
- South Africa
- South Korea
- Suomi
- Sverige
- Taiwan
- Türkiye
- United Arab Emirates
- USA

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com