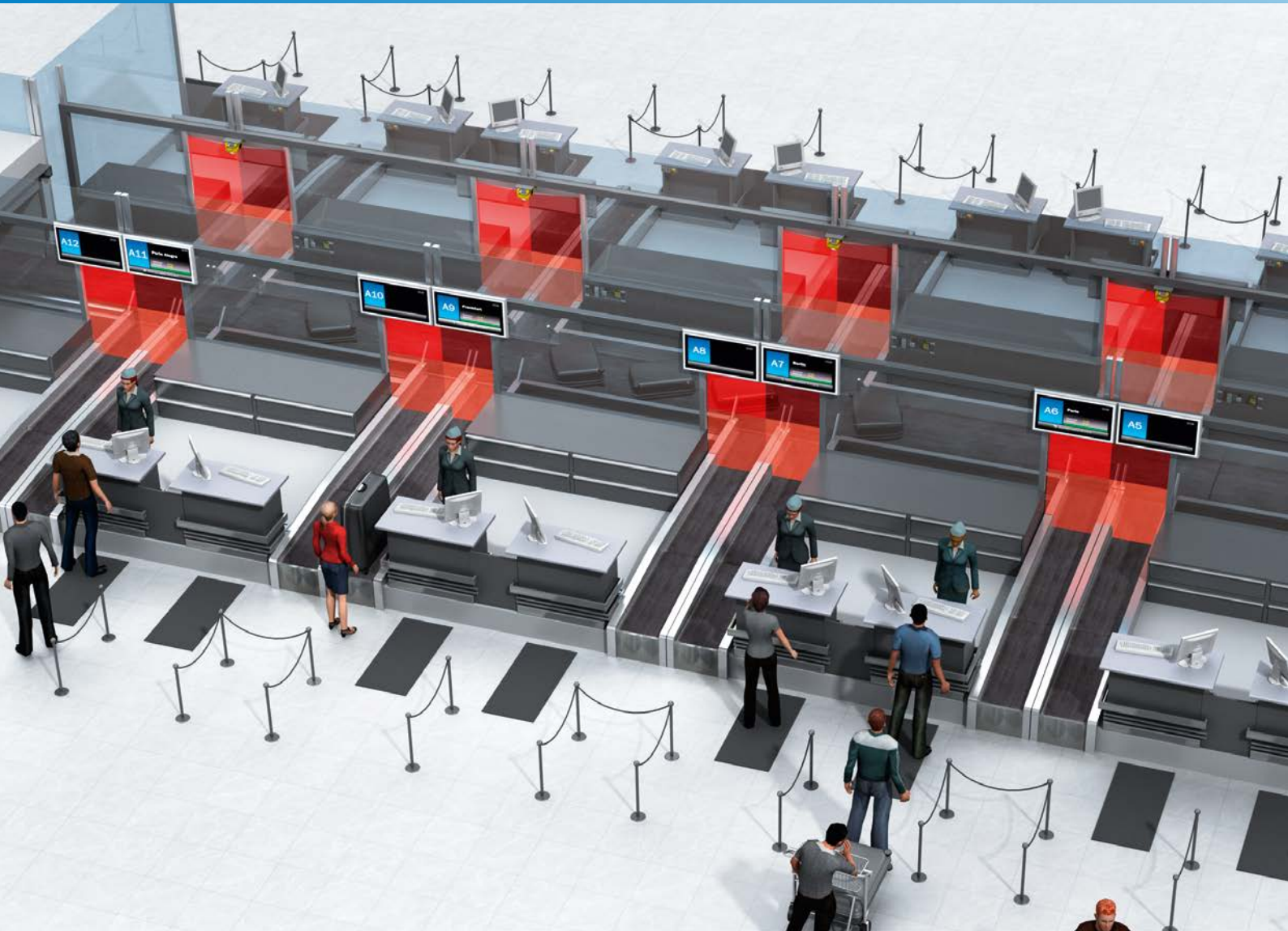# Safe Bag Drop Prime, Safe Bag Drop Pro
A SAFE JOURNEY STARTS WITH A SAFE BAG DROP
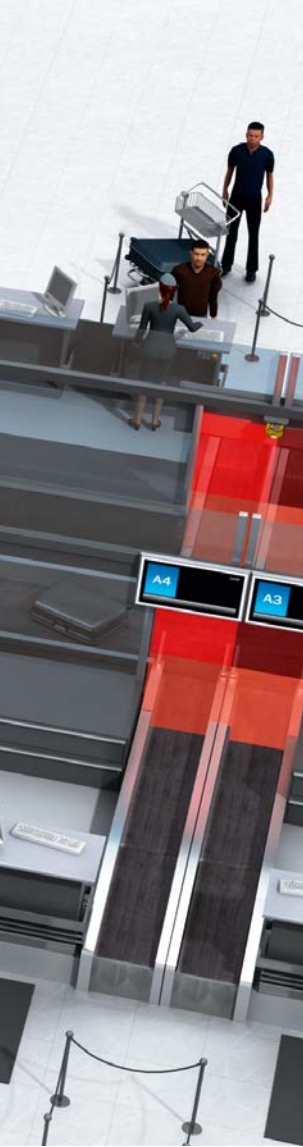
Functional Safety Systems

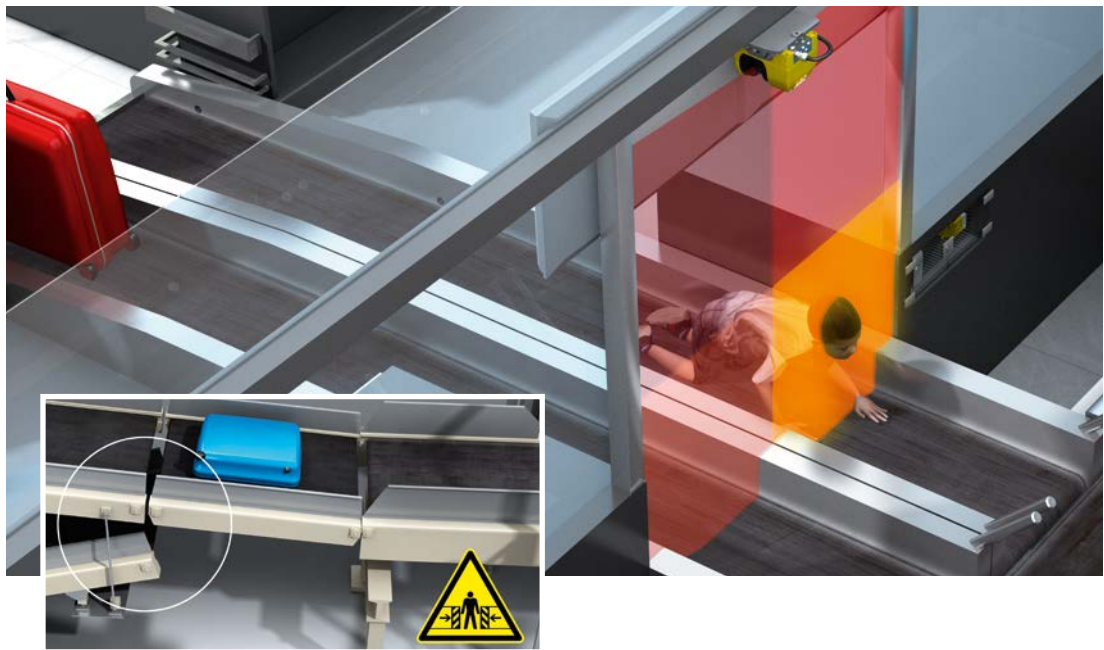**SICK**
Sensor Intelligence.

SAFE BAG DROP? – CHECKED!

In airports, safety, reliability, and punctuality are of paramount importance. Tight flight schedules and high passenger volume require smooth operations in every area. This process starts at the bag drop counter. The counter forms the interface between areas accessible to the public (land side) and the restricted luggage handling area (air side). And this is specifically where the foundation is laid to ensure everything remains safe and secure right up until boarding.

The bag drop counter is responsible for preventing unauthorized access and attempts at entering the luggage handling system as well as stopping oversized and bulky luggage from blocking the system.

Once bags have been checked at the bag drop counter, passengers and luggage go their separate ways. The conveyor belts in the complex handling systems transport thousands of bags every day and are designed specifically for this task alone. Drives, hatches and baggage sorter systems all pose a significant danger to people.
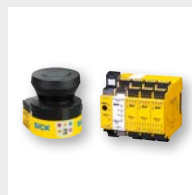
To ensure the safety of passengers and reliable airport operations, the bag drop counter has to be secured so that only pieces of luggage are moved along by the conveyor belts. The solution to this challenge is Safe Bag Drop from SICK, a protection package consisting of a safety laser scanner and a safety controller.

Protection at the counter at all times
➜ Page 4

No luggage jams
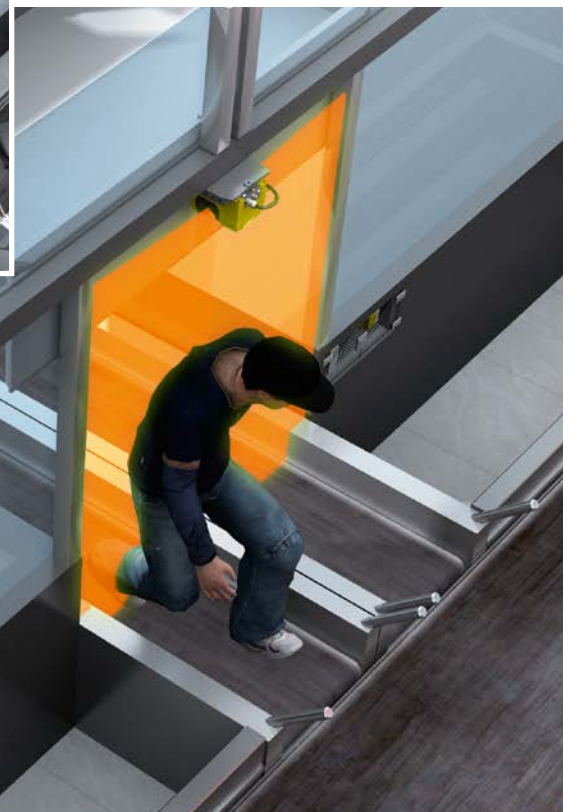➜ Page 5

Safe Bag Drop Prime
➜ Page 6/8

Safe Bag Drop Pro
➜ Page 7/8

safetyPLUS®
➜ Page 10

PROTECTION AT THE COUNTER AT ALL TIMES? – CHECKED!

Regardless of whether an attendant is at the bag drop counter or not, Safe Bag Drop is always on duty. A safety laser scanner installed vertically over the bag drop counter monitors two conveyor belts simultaneously, ensuring safe and reliable detection of objects. Simultaneous protection field evaluation immediately detects which field was infringed and stops the associated belt. These signals can be directed to the bag drop counter or to the monitoring room. The safety laser scanner only allows the incoming luggage to pass if the bag drop attendant starts the handling process on a control panel.

NO LUGGAGE JAMS? – CHECKED!

Thanks to additional smart functions, the system detects luggage that is too tall or that has become stuck and stops the belt. A message to the service personnel on duty (such as a technician or security staff) ensures that the problem can be resolved immediately.

Follow along with our animation at www.youtube.com

PLENTY OF SAFETY AND EFFICIENCY? – CHECKED!

Combining the functions of a safety laser scanner and safety controller into one system makes Safe Bag Drop a truly versatile package. In addition to accident prevention in public areas at an airport, the safety package also prevents unauthorized access. And it does so behind the scenes, without cumbersome fences or similar measures. Minimized downtimes thanks to smart diagnostics, overheight detection and luggage jam detection ensure flight schedules run on time.

The ultracompact solution

Safe Bag Drop Prime: S300 Mini and Flexi Soft

Sample scope of delivery

- S300 Mini Remote safety laser scanner
  S32B-3011EA, part number 1056431
- Mounting bracket
  MOUNTING KIT 1A, part number 2034324
- 10 m connecting cable
  DOL-1SS2G10ME15, part number 6042340
- Flexi Soft main module
  FX3-CPU230002, part number 1058999
- Flexi Soft I/O module
  FX3-XTIO84002, part number 1044125
- Flexi Soft system plug
  FX3-MPL100001, part number 1047162
- UE10-2FG safety relay
  UE10-2FG3D0, part number 1043916
- Emergency stop pushbutton
  ES21-SB10G1, part number 6036492

✅ Access protection at the bag drop counter

✅ Individualized and simultaneous monitoring of two adjacent counters

✅ Alarm trigger for security cameras

✅ Preventive maintenance (e.g. a signal is sent to the service technician if dirt accumulates on the sensor's front screen)

✅ Ultracompact sensor

◯ Differentiates between both bag drop belts

◯ Luggage overheight detection

◯ Detection of luggage jams

◯ Timer function

◯ SIM-4 safety function

Differentiated monitoring of two conveyor belts

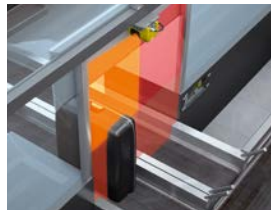# Safe Bag Drop Pro: S3000 Remote and Flexi Soft

Sample scope of delivery

- S3000 Remote safety laser scanner
  S30A-4011EA, part number 1028938
- Mounting bracket
  MOUNTING KIT 1A, part number 2015623
- S3000 Remote system plug
  SX0A-A0000B, part number 2023797
- Cable, screened, suitable for EFI
  communication (open length)
  CONNECTION CABLE, part number 6030756
- Flexi Soft main module
  FX3-CPU230002, part number 1058999
- Flexi Soft I/O module
  FX3-XTIO84002, part number 1044125
- Flexi Soft system plug
  FX3-MPL100001, part number 1047162
- UE10-2FG safety relay
  UE10-2FG3D0, part number 1043916
- Emergency stop pushbutton
  ES21-SB10G1, part number 6036492

Additional functions

- The protective field of the safety laser scanner is activated
  again using a timer function in the safety logic a few sec-
  onds after starting the handling process. Bags that are not
  conveyed further are detected.
- The SIM-4 safety function allows up to four protective fields
  to be monitored simultaneously. This reliably detects lug-
  gage that is too tall.

SIM-4 safety function

- ✔ Access protection at the bag drop counter
- ✔ Individualized and simultaneous monitoring of two adjacent counters
- ✔ Alarm trigger for security cameras
- ✔ Preventive maintenance (e.g. a signal is sent to the service technician if dirt accumulates on the sensor's front screen)

- ○ Ultracompact sensor
- ✔ Differentiates between both bag drop belts
- ✔ Luggage overheight detection
- ✔ Detection of luggage jams
- ✔ Timer function
- ✔ SIM-4 safety function

A SAFE JOURNEY STARTS WITH A SAFE BAG DROP

Safe Bag Drop Prime

At a glance

- Access protection in terms of functional safety
- Alarm signal for activating security cameras
- Ultra-compact sensor housing
- Shut-off and diagnostics in the event of luggage jams
- Signals for preventive maintenance if dirt accumulates on the sensor's front screen

Your benefits

- The ultra-compact housing can be integrated to be virtually invisible
- Smooth, safe luggage handling free of incidents involving passengers minimizes downtimes
- Safety and Security for passengers and airport staff
- Closes security gaps in airports – any unauthorized access is detected and tracked
- Dependable luggage handling ensures on-time departures and increases customer satisfaction as a result
- Preventive system diagnostics ensure luggage reaches its destination without a hitch
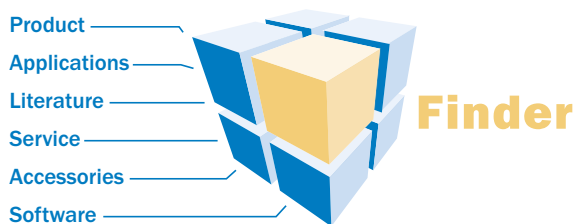
Safe Bag Drop Pro

At a glance

- Access protection in terms of functional safety
- Alarm signal for activating security cameras
- Individual shut-off signals thanks to simultaneous protective field monitoring
- Over-sized luggage is detected and separated out
- Shut-off and diagnostics in the event of luggage jams
- Signals for preventive maintenance if dirt accumulates on the sensor's front screen

Your benefits

- High system availability thanks to simultaneous monitoring of two bag drop counters
- Smooth, safe luggage handling free of incidents involving passengers minimizes downtimes
- Safety and Security for passengers and airport staff
- Closes security gaps in airports – any unauthorized access is detected and tracked
- Dependable luggage handling ensures on-time departures and increases customer satisfaction as a result
- Lower operating costs thanks to access protection and luggage diagnostics in one multifunctional system
- Preventive system diagnostics ensure luggage reaches its destination without a hitch

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- Applications
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Applications Finder: Select the application description on the basis of the challenge posed, industrial sector, or product group.

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Find out prices and availability: Determine the price and possible delivery date of your desired product simply and quickly at any time.

Request or view a quote: You can have a quote generated online here. Every quote is confirmed to you via e-mail.

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SERVICES FOR MACHINES AND SYSTEMS: SICK LifeTime Services

Our comprehensive and versatile LifeTime Services are the perfect addition to the comprehensive range of products from SICK. The services range from product-independent consulting to traditional product services.

Consulting & Design
Safe and professional

Product & System Support
Reliable, fast and on-site

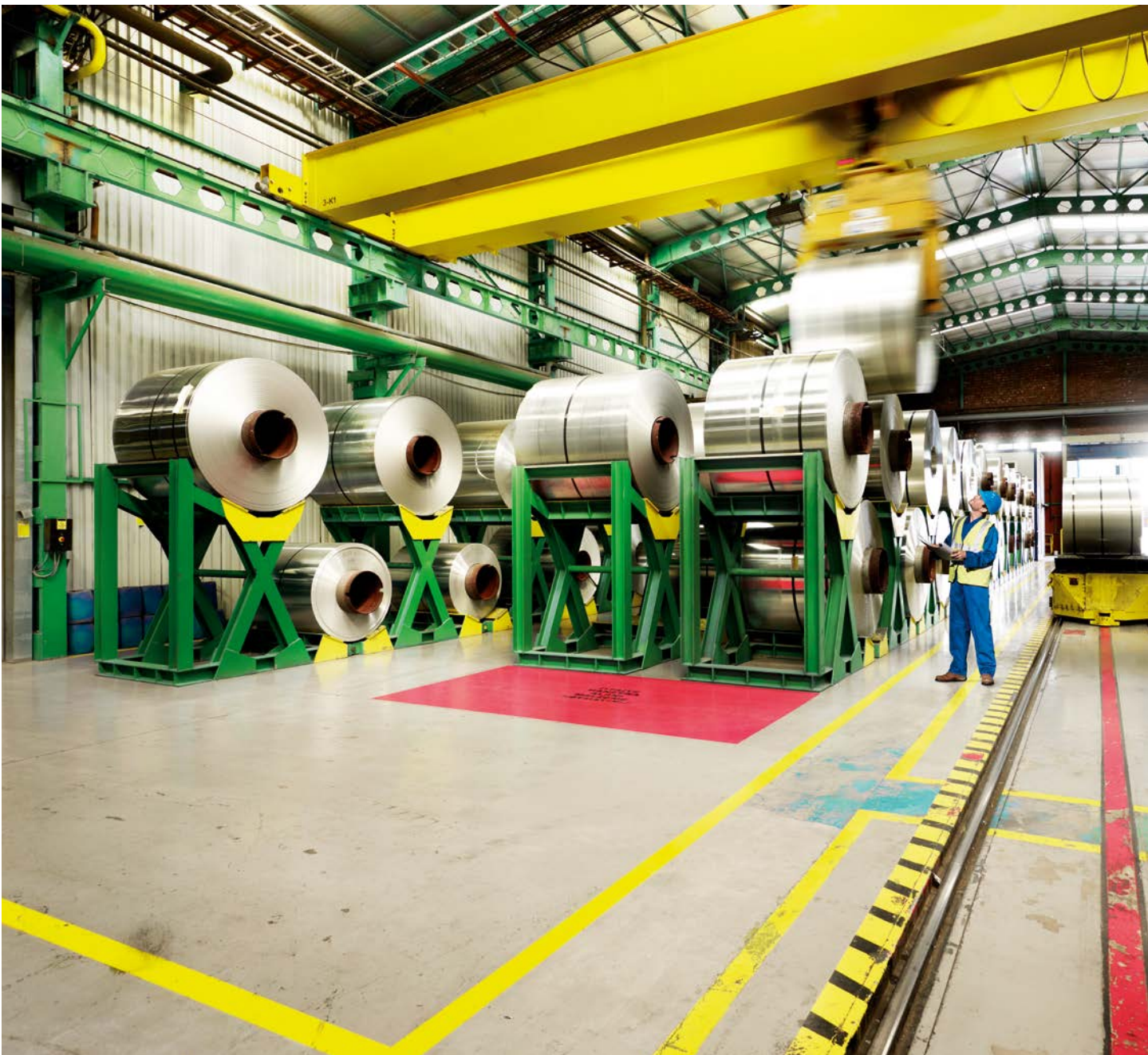**Verification & Optimization**
Safe and regularly inspected

Upgrade & Retrofits
Easy, safe, economical

Training & Education
Practical, focused and professional

WE PROTECT PROCESSES. WE PROTECT INVESTMENTS. WE PROTECT PEOPLE.

safetyPLUS® is the range of machine safety products and services provided by SICK for the protection of people and investments. The PLUS means comprehensive, individual support for our customers regarding the functional safety of their machines and systems. Comprehensive means optimum support from development of the machine through commissioning and use to retrofitting and modernizing – all over the world.

We help to ensure customers' individual requirements for legal compliance and reliable production are met through:

- Safety products and systems, services and training
- Passing on expert knowledge through consultancy and online services
- Safety tools for a simplified engineering process
- Functionality to support production efficiency

Your benefits

- Products and systems that solve your safety challenges while also ensuring high productivity
- Legal security today and in the future
- Accident prevention
- Skilled support available to you throughout the world

Productive

Advantages for your design engineering and productivity—our pioneering safety products prove it day in and day out. And they have been doing it for more than half a century.

Efficient

1 + 1 = 3 means that you win efficiency. With clever product combinations or turnkey systems.

Legal certainty

Do you export or utilize machinery worldwide? Then we have the expertise to ensure your compliance with legal requirements all over the world.

On site

Services and training courses in 80 countries – functional safety knowledge at your location.

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 7,400 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.

Detailed addresses and further locations ➜ **www.sick.com**

SICK
Sensor Intelligence.