

## **Optoelectronic Sensors**

Cubic Series  
Cylindrical Sensors, Mini Sensors, Fiber Optic Amplifiers  
Measuring Sensors  
Special Sensors  
Light Curtains  
Forked Sensors  
Double Sheet Monitoring, Splice Detection  
Accessories

## **Identification Systems**

### **Data Transmission Systems**

### **Distance Measurement**

Barcode Readers  
RF-IDent-Systems  
Modular Interfacing Units  
Industrial Image Processing Systems  
Optical Data Transmission Systems  
Optical Distance Measurement/Positioning  
Hand-held readers

## **Safety Sensors**

### **Safety Systems**

### **Safety Services**

Safety Laser Scanners  
Safety Light Curtains  
Transceivers and Multiple Light Beam Safety Devices  
Single Light Beam Safety Devices  
AS-i-Safety Product Range  
Safety Sensor Technology for PROFIBUS DP  
Safety Switches and Safety Locking Devices  
Safety Relays and Interfaces  
Sensor Accessories and Signal Devices  
Machine Safety Services

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the **sensor** people

## Machine Safety Services

Service and support  
for machine safety

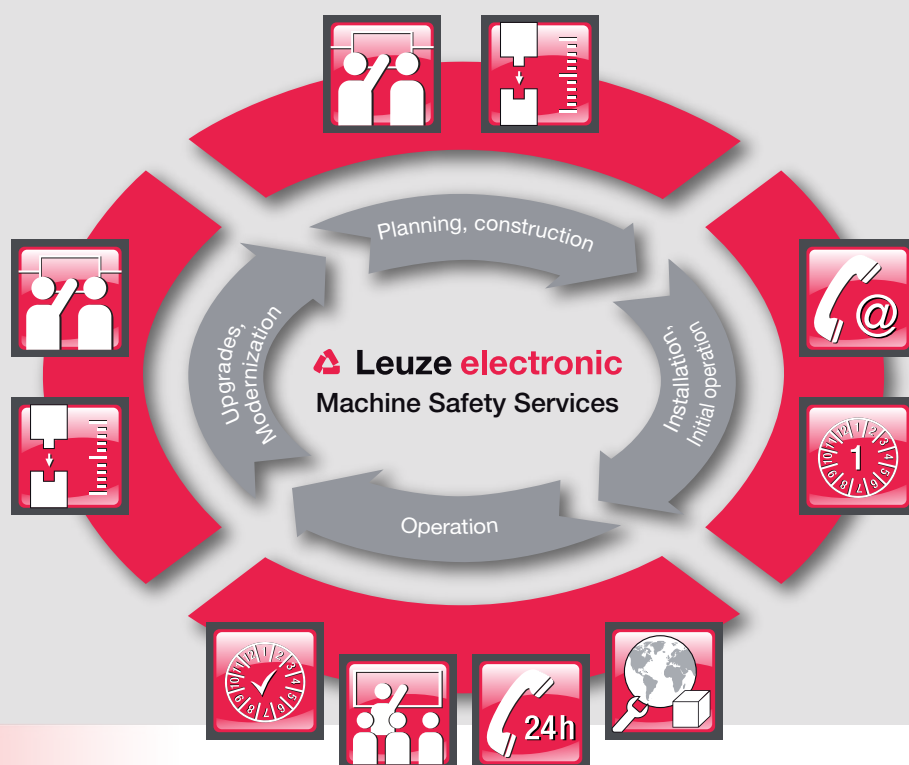


# The service package for all aspects of your machine's lifecycle.

Effective. Reliable. Economical.

Whether it is planning and engineering or safety at work management in operations, the use of industrial safety technology requires a high degree of responsibility awareness and well-established expertise. With the - Machine Safety Services - service package we provide product-related services and support for everything concerning machine and plant system safety.

The individual services are coordinated with the safety-related application during the machine's lifecycle and can be applied individually or combined as requirements dictate.



## Our services: What can we do for you?



Application advice,  
safety engineering

Our competence in consulting and our solutions help you develop economical safety concepts and ensure maximum plant productivity.



Start-up support,  
hotline

Our quick and competent support with start-up helps you to save time and money.



24-hour  
On-Call Service

In emergencies, you can get hold of our 24-hour On-Call Service quickly and easily.



Safety inspection  
before the machine's  
initial start-up

Our initial inspections help to minimize risks, ensure EU conformity and provide legal certainty.



Regular  
safety inspections

Regular safety inspections help to reduce accident risk and machine downtimes, as well as complying with quality standards.



Stopping time measure-  
ments and determining  
safety distances

Our measurements performed by experts and comprehensibly documented results create a secure basis for the correct positioning of the protective devices.



On-site service,  
repairs and device  
replacement service

In the event of a malfunction, we offer fast help with replacement devices from our standard range, and, if necessary, we can dispatch one of our competent service technicians to provide on-site support.



Inspection database

Our exclusive inspection database – InspectionControl – helps to minimize downtimes and creates test logs electronically.



Qualified product  
training and seminars

Well trained employees ensure a safe and fault-free production.



## Application advice, safety engineering.

### Our know-how for the safety of your production processes

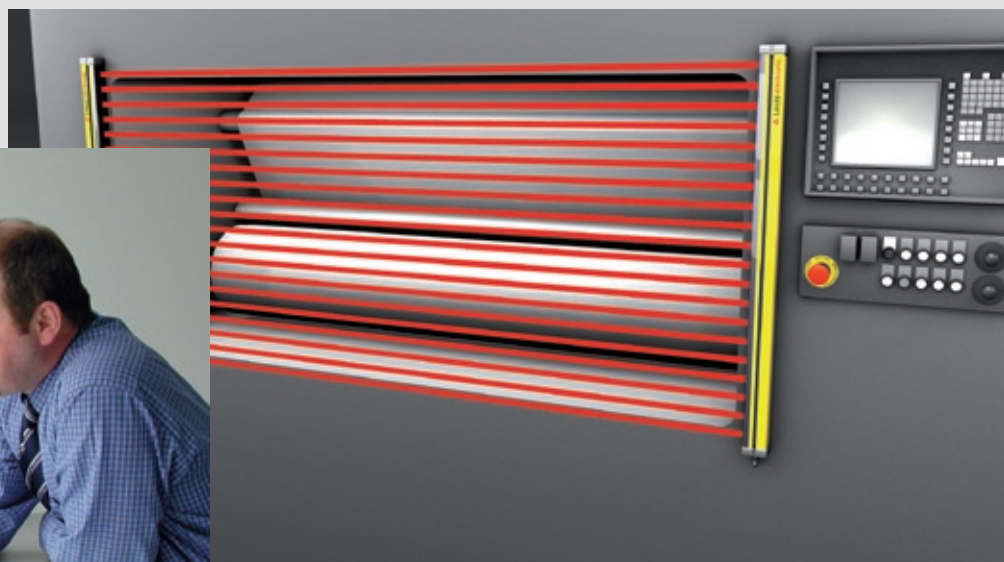
Whether it be a new system or a modernization, for the designer the important thing is to integrate the safety technology into the machine in such a way that optimum productivity, ergonomics and cost effectiveness are achieved while incorporating and considering the relevant standards and specifications. Make good use of the long-standing years of application experience of our engineers in hammering out the respectively most optimum safety concept.

### "Safety know-how" whenever you want it

Our online adviser, "Safety know-how" at [www.safety-at-work.leuze.de](http://www.safety-at-work.leuze.de) provides a selection of European directives and important standards relating to machine safety and offers assistance with the selection and application of protective devices. Interactive calculation wizards support the person setting up, for example, with the standards-compliant dimensioning of hard guards or the calculation of required safety distances with active optoelectronic protective devices.

### Save time with computer- aided engineering

EPLAN 5 product macros are ready for free download for quick and easy integration into your circuit diagram for many of our products.





## Start-up support and 24-hour On-Call Service.

### Fast assistance during start-up

Deadline pressure means: there's often just too little time for starting up a protective device. Our competent service hotline can answer a lot of questions at the early phone call stage. On our website at [www.leuze.com](http://www.leuze.com) we support you around the clock with a free of charge download option for operating instructions, technical descriptions, parametering/configuration software, data sheets, parameter files and FAQs for fast troubleshooting.

**+ 49 (0) 8141 / 5350 - 111**  
**[service.schuetzen@leuze.de](mailto:service.schuetzen@leuze.de)**

### In the event of an emergency, we are there for you around the clock

For emergencies, the 24-hour On-Call Service of Leuze electronic is available for you around the clock at: **+49 (0) 7021 / 5730**.





## Safety inspections before the initial start-up and regular safety inspections.

### We ensure the safety of your machines

Safety at work is the employer's responsibility and therefore the "boss's business". This principle applies the world over. In Germany the Ordinance on Industrial Safety and Health legally requires that machinery be tested before being put into operation (initial start-up), after long idle periods, after changes and modifications and at regular intervals. Regardless of this, regular safety inspections guarantee compliance with safety and quality standards, serve as precautionary maintenance measures and consequently help to reduce undesirable machine downtimes to a minimum.

Individual maintenance contracts are possible at all times.

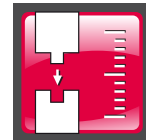
### Your benefits at a glance

- EU conformity and legal certainty with proof that relevant safety and quality standards are met
- Proven-in-practice solution proposals for the rapid removal of safety deficiencies
- Comprehensive and well-documented test results in accordance with DIN ISO 9001:2000
- Standards-specific test protocol
- Accident risk and machine downtime minimization
- Ensuring machine productivity and availability with regular inspections

### Scope of safety inspections

- Recording the identification of machine and protective device
- Testing the technically-compliant installation of the protective device (reaching under, reaching over, etc.)
- Stopping time measurement (optional) and testing the safety distance from the protective device to the point of operation
- Testing the circuit diagrams for safe switching-related integration of the protective device into the machine control system
- Testing all functions of the protective device and the safe interaction with the machine control system
- Proven-in-practice assistance with problem analysis and presentation of solutions
- Documentation of all test results in a test log and attaching the inspection sticker
- Log in pdf format
- Safety inspections of other manufacturers' products on request





## Stopping time measurements and determining safety distances.

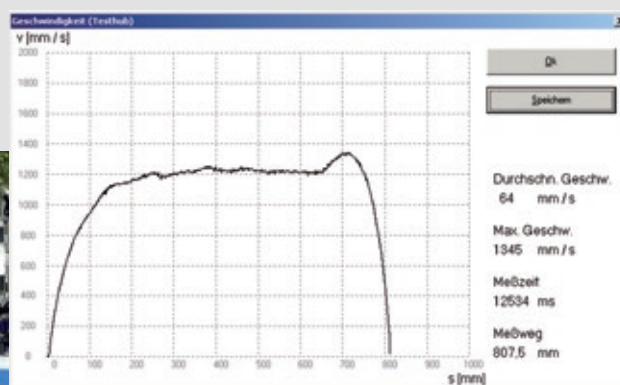
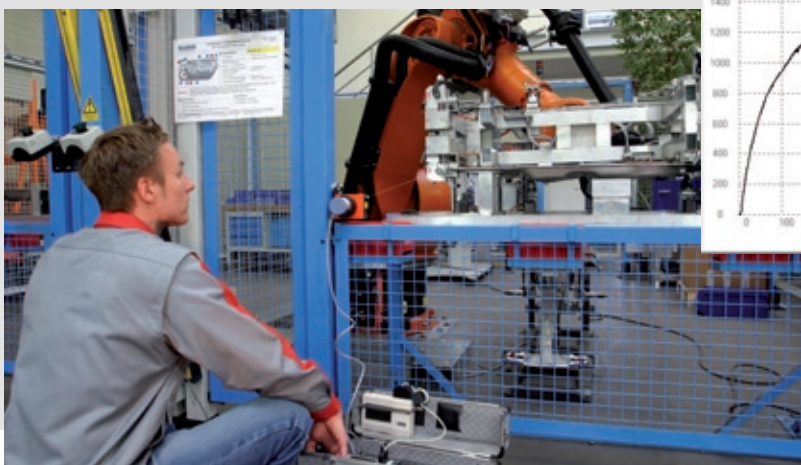
### Stopping time measurements are an important basis for the correct positioning of protective devices

Only with a sufficiently dimensioned safety distance that corresponds with the stopping time of the machine can it be guaranteed that the dangerous movement will stop before the person reaches the point of operation.

Wear and tear can, however, extend the stopping times of machines. The causes for this can, for example, be a defective brake cylinder or a faulty spark absorber. Stopping the dangerous movement in good time and therefore reliable protection by the protective device is no longer guaranteed. Stopping time measurements are therefore, in our opinion, an extremely important part of a properly carried out safety inspection.

### Your benefits at a glance

- Measurements performed by experts with calibrated measurement devices provide a safe and sound basis for positioning the protective device
- Comprehensible and well-documented test results in accordance with DIN ISO 9001:2000 and optional graphic analysis of the braking motion
- Early detection of wear and tear in brake components with periodical inspections





## On-site service, repairs and device replacement service.

### Fast help, worldwide

In the event of a functional fault, speedy help is the order of the day. Our replacement service enables the swift device exchange. As part of our 12-month guarantee, you will receive a free replacement device at no charge after you provide us with the serial number. Within Germany the delivery of a replacement device from our standard range generally takes 1 to 2 working days. In countries outside of Germany, the necessary transport times must be taken into account. If a device failure occurs after the end of the guarantee period, we provide a device on loan at a reasonable price for the duration of the repair period, and consequently ensure the necessary on-site safety.

If necessary, our technicians will assist with the search for and removal of faults on-site. In this case please contact our service hotline at +49 (0) 8141 / 5350 -111 or the Leuze electronic sales partner responsible for you.

For emergencies, the 24-hour On-Call Service of Leuze electronic is available for you around the clock at: +49(0) 7021 / 5730.

Repairs are competently carried out in our service center up to component level.

### Your benefits at a glance

- Fast help around the world with the device replacement service
- Fault search and removal on-site
- Competent device repairs and maintenance
- 24 hr On-Call Service for emergencies





## Inspection Database exclusively at Leuze electronic.

### InspectionControl

### Your benefits at a glance

In Germany, the Betriebssicherheitsverordnung (BetrSichV Art. 3 Sec. 3 and Art. 10) requires the testing of the machine before start-up and in regular intervals thereafter.

We tackle this task for you in a particularly effective way.

For safety inspections, the Machine Safety Service Team uses the exclusive Leuze electronic InspectionControl database.

- Minimizing machine downtimes through on-site database access to data of previous inspections and measurements
- Time savings and thus reduced testing costs
- Comprehensive test log in pdf format: Only the data relevant for your machine is shown in the log
- On request: log creation in database format (.mdb /.xls) for integration into SAP





## Qualified product training and seminars.

### We'll get your employees into top shape in safety technology

Our tailor-made training program assists you in selecting the course you need. In addition to the various product training courses that impart expert knowledge on the respective products, we also offer seminars on the basic principles of machinery directives, CE symbols and practical safety technology. We will also gladly provide instruction on-site at your facilities or in English.

Our training program can be found on our website at [www.leuze.com](http://www.leuze.com) under the Service heading. If your training requirements go beyond this, we will be happy to combine the training contents to meet your individual needs, provided there is an adequate number of participants. We're looking forward to getting to know you!

### Your benefits at a glance

- Efficient and specialist use of protective devices by qualified employees
- High level of system availability by preventing faulty operation and application errors
- Small cause – big consequences  
Optimum product knowledge helps to detect application problems quickly and prevent production downtimes
- Direct dialog between our specialists and your employees for experience exchanges, application tips and problem-solving
- Employees who complete a training course receive a certificate.



## Fax response + 49 (0) 8141/53 50 - 190

Please copy, complete and fax this page.

I would also like information on other Leuze electronic products.

I would like to have a personal consultation with a member of your field staff.

I would like to receive Leuze's free e-mail newsletter in the future.

Company

Last name, First name

Department

Street

ZIP, City

Phone

Fax

E-mail

### Leuze lumiflex – a company of the Leuze electronic Group

For more than 40 years, Leuze electronic has been a leader in the development and production of optoelectronic sensors, barcode and RFID identification systems, data transmission systems and image processing systems. Subsidiary Leuze lumiflex has been developing and producing innovative safety technology for workplace safety in industry for more than 30 years.

- 740 Leuze electronic employees
- €115 million sales (2006)
- Production facilities in Germany, USA, Great Britain, Switzerland, Brazil, Australia
- Subsidiaries and representatives in all important industrialized countries

### Safety technology for the global market

Adherence to international quality and safety standards, inspected by accredited testing bodies, such as TÜV and BIA, guarantees worldwide acceptance and the consistently high quality of our products.

Through active participation in international standardization committees, we are able to ensure that our safety technology is always state-of-the-art. Our development processes and safety management methods are certified in accordance with IEC 61508-1.



ISO  
9001



Leuze electronic in Owen/Teck



Company facilities at the Fuerstenfeldbruck location

