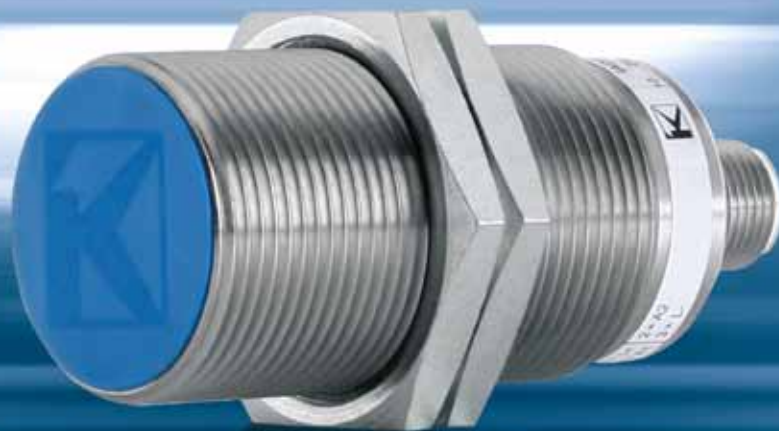


**Sensors, Safety Technology  
Double Sheet Metal Monitors  
Measuring Relays and Controllers**



# Sensors, Safety Technology

In plant and machinery, sensors are indispensable "organs of perception" and fundamental elements of automation. The physical values they record are converted into electrical signals and processed in the associated controller.

KLASCHKA Sensors detect position and speed of rotation, recognize parts, and measure the sequence of complex motions. Safety Switches ensure the safety of personnel in contact with plant and machinery.



## Inductive Sensors

For the contactless detection of metallic objects

- Free of wear and sturdy, shock-resistant
- High switching frequencies, short response times
- Also magnetic field- and weld-proof
- Also with reduction factor 1
- Customer-specific developments.

## Distance and Displacement Sensors

Determine the distance between sensor and the object under measurement, also for harsh environments.

## Capacitive Sensors

- Detect non-metallic materials, such as paper, plastics, wood, liquids
- Determine filling levels in containers.

## Ultrasonic Sensors

Target detection, also for long distances.

## Pulse Sensors

Detect fast motions and fine geometries

- Hall and magneto-resistive sensors
- High-speed inductive sensors
- Max. operating frequency 20 kHz.

## Non-ferrous Metal Switches

Detect non-ferrous metals, also in front of a ferro-magnetic background.

## Specific Sensors

With special features for customer-specific applications.

Examples

- Sensors for thickness measurement
- Sensors for rotation speed monitoring in drives
- Surface switches for off-track running monitoring and for the detection of large objects.

## Safety-related Sensors

- Certified up to safety rating 4, SIL/PL conformity
- Manipulation-safe due to transponder-based technology
- High switching distances
- Immune to vibrations and shocks
- Easy mounting, easy adjustment
- Sturdy, maintenance-free.

## Safety Devices

For emergency stop and protection door applications in combination with SIDENT Safety Switches.

## Identification Systems and Position Recognition (RFID)

- Non-contact identification of tools and work-pieces
- Scanning of multiple positions.

## Accessories

- Leads with connectors
- Mounting parts.

# Double Sheet Metal Monitors, Controllers

The data recorded by the sensors are reliably converted, monitored and processed by our measuring relays and controllers for a wide variety of tasks. The fibre-glass reinforced plastic housings are shock-resistant, weather-proof and flame-retardant and are suitable for mounting on top-hat rail. Double Sheet Metal Monitors prevent damage to metal processing tooling and help eliminate downtime.



## Measuring Relays for Current and Voltage

Monitoring of currents and voltages.

## Measuring Relays for Rotation Speed and Frequency

Evaluation of pulse sensor signals, generation of switching commands or rotation speed proportional output voltages or currents.

## Monitoring Devices

For a wide range of monitoring functions in equipment and machinery, such as to detect present parts or to determine flow rates.

## Mini Controllers

For specific individual tasks, such as measurement and/or monitoring. They communicate with intelligent local controllers or with higher-level system controllers or operator controls.

## Double Sheet Metal Monitors for the metal-forming technology

Double sheet metal detection at destackers and feeders in sheet metal forming production lines, contact and non-contact measurement

- **BDK:** Universal Double Sheet Metal Monitors for demanding applications (e.g. in the automotive industry) with field bus interfaces such as PROFIBUS-DP and PROFINET.

Cost-effective solutions for thin and standard sheets in a wide range of metal processing industries, including "white goods"

- **BDK Compact:** easy use with Teach-In function
- **BDK UNO:** self-contained Sensor for contact measurement
- **BDK DUO:** self-contained Sensor for non-contact measurement.

## Control and Monitoring Systems

- In the automotive industry
- In the metal-forming technology.

## Automation systems

We also develop customer-specific solutions taking into account the relevant conditions and specifications.

# Agencies

The KLASCHKA brand name on our products stands for quality you can rely on, but also for world-wide service and competent advice. A high delivery capability, an efficient workflow and our well-trained specialised staff guarantee optimal customer satisfaction.

## Headquarter Germany

**Klaschka Industrieelektronik GmbH**  
**Customer Service**  
Am Zeller Pfad 1  
75242 Neuhausen/Enzkreis  
Fon: +49 7234 79-0  
sales@klaschka.de  
www.klaschka.de

## Germany

**Baden Württemberg,  
Hessen Süd**  
promovere GmbH  
Fon: +49 7234 94 93 79  
j.gibietz@  
promovere-vertrieb.de

**Nordrhein-Westfalen**  
Wagner GmbH  
Fon: +49 2058 782800-0  
info@wagnergmbh.de

**Saarland,  
Rheinland-Pfalz, Baden**  
Klaschka Industrieelektronik GmbH  
Fon: +49 7234 79-0  
sales@klaschka.de  
www.klaschka.de

**Sachsen, Thüringen**  
Ingenieurbüro  
Dipl.-Ing. Klaus-E. Schulz  
Fon: +49 30 4747440-8  
klaus-e.schulz@t-online.de

## Other countries

**Australia**  
M. Brodribb Pty. Ltd.  
sales@brodribb.com.au

**Austria**  
I + L Elektronik GmbH  
b.hoerburger@  
iul-elektronik.at

**Belgium**  
Leuze electronic nv/sa  
info@leuze.be

**China**  
Silkroad Trade (Shanghai)  
office@silkroad24.com

**Czech Republic**  
PROFESS spol. s.r.o.  
profess@profess.cz

**Finland**  
Ins.Tsto Ri-set Oy  
posti@riset.fi

**France**  
DIPAC  
contact@dipac.fr

**Hungary**  
MiPro  
xxmiproh@  
miprokft.t-online.hu

**India**  
Rameshwar Engineering  
rameshwar@ramsharan.com

**Indonesia**  
P.T. Gerindo Raya Sakti  
gerindo@indosat.net.id

**Italy**  
BTS Elettronica s.r.l.  
info@btsitalia.it

**Malaysia**  
DAB Technology Sdn Bhd  
enquiry@dabtech.net

**Malaysia, Singapore**  
Ingermark (M) Sdn Bhd  
enquiry@ingermark.com

**Mexico**  
ABAZA DIGITAL de Puebla  
abaza@prodigy.net.mx

**Netherlands**  
Teleson B.V.  
verkoop@teleson.nl

**Poland**  
AKSEL P.P.H.U.  
pruszkow@  
aksel-gmbh.com.pl

**Singapore**  
DAB Technology Pte Ltd.  
dabtech@singnet.com.sg

**South Africa**  
Newco Instruments cc  
veni@newcosensors.co.za

**South Korea**  
MachineNet  
robotryoo@naver.com

**Spain, Portugal**  
Bosch Rexroth S.L.  
javier.novoa@  
boschrexroth.es

**Sweden**  
SensorGruppen AB  
info@sensorgruppen.se

**Switzerland/Liechtenstein**  
DUVILEC AG  
info@duvilec.ch

**Taiwan**  
Daybreak Intl.(Taiwan) Corp.  
day111@ms23.hinet.net

**Thailand**  
DAB Technology Co. Ltd.  
dabtech@truemail.co.th

**Turkey**  
YORUM  
yorum@  
yorum-automation.com

**Ukraine, Russia,  
White Russia**  
Dr. Klaschka GmbH  
dku@klaschka.com.ua

**USA, Canada**  
Glo-ComM  
glocomm@carolina.rr.com

# In Focus – Tradition and Innovation

For almost five decades KLASCHKA, one of the most innovative suppliers in industrial electronics and automation, has significantly contributed to the state of the art in these technologies. We develop, manufacture and sell components and systems for industrial and environmental technology. With our successful standard products and know-how from numerous customer-specific developments we always offer a suitable solution.



## Tradition, Innovation, Know-How

These are the pillars of KLASCHKA's success. From the foundation of the company in 1964 until today we have been at the service of our world-wide customers every day.

We have a long tradition of innovation due to research and development. From the development of the first Inductive Proximity Switch in 1959 through the first Programmable Logic Controller (SECON) in 1976 to the All Metal Switch in 2004 we kept pace with the development of industry in our region. More than 1,000 products in the product families Sensors, Safety Technology, Double Sheet Metal Monitors, Measuring Relays and Controllers complete our range.

In our in-house EMC-laboratory we can perform electromagnetic compatibility testing. We also offer this service to our customers.

Thinking ahead, setting trends and realizing today the customer requirements of tomorrow,

these are the standards we set ourselves. Inventiveness, courage and absolute commitment to innovation run in our veins. Numerous patents emphasize this and enable individual and specific solutions.

## KLASCHKA in brief

- 1964 - Foundation of "Industrieelektronik Dr.-Ing. Walter Klaschka"
- Extensive product range
- Numerous patents
- Agencies all over the world
- Certification acc. to DIN EN ISO 9001.

Our local cooperation partners support us during system development and commissioning.

When may we offer you an ideal solution? Just ask us. We are here to help you.

**We are here to help you.**



Klaschka Industrieelektronik GmbH | Am Zeller Pfad 1 | 75242 Neuhausen | Germany  
Fon +49 7234 79-0 | Fax +49 7234 79-112 | [info@klaschka.de](mailto:info@klaschka.de) | [www.klaschka.de](http://www.klaschka.de)