

NEW FOR 2014

Kübler



NEW 2014

- Incremental and absolute Encoders
- Functional Safety
- Lineare Measuring Technology
- Slip Rings

■■■ *pulses for automation*

Our pulses for innovations



The Kübler Group belongs today to the leading specialists worldwide in the fields of position and motion sensors, functional safety, counting and process technology and transmission technology.

Founded in the year 1960 by Fritz Kübler, the family business is now led by the next generation of Gebhard and Lothar Kübler.

Nine international group members and distributors in more than 50 countries offer local product know-how, service and advice throughout the world.

Innovative product and sector solutions, as well as solutions for functional safety and a high level of service, are the reasons behind our global success.

The strict focus on quality ensures the highest levels of reliability and a long service life for our products in the field.

Over 400 dedicated people worldwide make this success possible and ensure that customers can continue to place their trust in our company.

Kübler Service for worldwide planning reliability



Sample and Repair Service

We manufacture samples of special designs or according to customer specification within shortest time. We carry out repair work reliably within a maximum of 5 days.



10 by 10

We will manufacture and deliver 10 encoders within 10 working days (365 days a year - with the exception of 24th Dec. until 2nd Jan.)



Kübler online – www.kuebler.com

- Up-to-date product and company information
- Product finder – the selection tool that helps you finding quickly the suitable product
- Download service for CAD data, software, operating instructions, certificates and catalogs
- You will find comprehensive information about the basic technical knowledge relating to our products on our homepage: www.kuebler.com/basics



48 h Express Service

We can process your order within 48 hours; we can ship stock items the same day.

- Simplified orders
- Calculable delivery
- Flexible use of small batch sizes



Tailor-made Solutions – Kübler Design System (KDS) OEM Products and Systems (OPS)

We develop jointly with our customers product and engineering solutions for customer-specific products, integrated drive solutions, up to complete systems (sensors, electronics and mechanics).



Safety Services

- Adapted service packages
- Individual customer solutions



Service-Center / Technical Hotline

Whatever your needs, advice, analysis or support for the installation, Kübler is present on site all over the world with its Service Center.

Kübler Germany +49 7720 3903 35
Kübler France +33 3 89 53 45 45
Kübler Italy +39 026 423 345
Kübler Poland +48 61 84 99 902

Kübler Turkey +90 216 999 9791
Kübler China +86 10 5134 8680
Kübler India +91 8600 147 280
Kübler USA +1 855 583 2537

Our product portfolio



Position and Motion Sensors

- Incremental and Absolute Encoders
- Linear Measuring Technology
- Inclinometers
- Connection Technology

Connector and Signal Transmission Technology

- Slip Rings
- Optical Fibre Signal Transmission Modules
- Cables, Connectors and Cordsets

Functional Safety

- Encoders certified up to SIL3/Plc
- Modules for safe Drive Monitoring
- System Solutions for safe processing of Safety Sensors

Counters and Process Devices

- Pulse Counters and Preset Counters
- Hour Meters and Timers
- Frequency Meters and Tachometers
- Combination Time and Energy Meters
- Position Displays
- Process Displays and Controllers for Temperature, Analogue Signals and Strain-Gauge
- Setpoint Adjuster

We offer solutions for the following industries:



The high performance level and reliability of the Kübler products are based on our long experience in these demanding application sectors. Learn more about our application-specific solutions under:

www.kuebler.com/industries

New for 2014

Position and Motion Sensors

Sendix absolute field bus encoders for Industrial Ethernet

- Sendix absolute PROFINET IO encoders P. 4
- Sendix absolute EtherCAT second generation encoders P. 5

For the drive technology

- Fully digital and bidirectional with 21 bit resolution! Sendix absolute encoders with BiSS-C P. 6
- Sendix 5814/5834 SinCos encoders, highly interpolable up to 16 bits P. 7

Sendix encoders for explosive atmospheres

- Sendix ATEX 7000 incremental encoders P. 8
- Sendix SIL ATEX encoders for Functional Safety P. 9

Sendix encoders for Heavy Duty applications

- Sendix Heavy Duty H120 incremental hollow shaft encoders P. 10

Sendix absolute encoders with patented Intelligent Scan Technology™

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Linear measuring technology

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Functional Safety

Service packages

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Encoders for Functional Safety

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Transmission Technology

Slip rings

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Fast and simple Sendix PROFINET IO encoders

The real-time encoders. The absolute singleturn and multiturn Sendix PROFINET IO encoders support the Isochronous Real-Time-Mode (IRT) and are therefore ideal for real-time applications. The Fast Start Up (FSU) allows now to start up a system in well less than a second. In addition, the "Ezturn" software ensures a fast commissioning of the encoders.



Characteristics and advantages at a glance

- Isochronous Real-Time-Mode (IRT)
 - ▶ Ideal for real-time applications
- Fast Start Up (FSU) - System start-up in less than one second
 - ▶ This reduces cost-intensive stoppages (repeated start-up times)
- Plug-and-Play commissioning thanks to the "Ezturn for Profinet" software
 - ▶ Allows an easy use and saves time
- Easy firmware update to extend the features of the encoder
 - ▶ Dismounting the encoder is therefore no more necessary
- Media Redundancy Protocol (MRP)
 - ▶ The functionality is maintained in the case of an interruption of the ring structure



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Applications

Industrial Ethernet is increasingly imposing itself as the communication standard in automation technology. The goal is to create a vertical integration – that is to say: only one core computer, from the control level up to the industrial production plants - that will be able to control any device.

A minimal cycle time of < 1 ms is the prerequisite for this. The Sendix PROFINET IO encoders demonstrate their abilities in the following application examples: metal-working machines, slitting and winding machines, automotive production.



The fastest of their kind Sendix EtherCAT encoders

Second generation. The absolute singleturn and multiturn Sendix EtherCAT encoders – with a position update within 62.5 µs – are currently the fastest encoders on the market.

These encoders implement the latest CANopen profile 3.2.10; this feature allows many standardised field bus functionalities.



EtherCAT®
Conformance tested

Characteristics and advantages at a glance

- Minimal cycle time: position update within 62.5 µs
 - ▶ Realisation of highly dynamic systems and increase of plant performance
- CAN over Ethernet
 - ▶ Standardised functionality from the field bus area
- Integration of the latest EtherCAT stack by Beckhoff
 - ▶ The use of the most up-to-date EtherCAT features is possible
- Dynamic mapping
 - ▶ Customer or application-specific optimisation is possible
- EtherCAT conformance tested
 - ▶ Problem-free integration in standard EtherCAT environments



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Applications

Industrial Ethernet is increasingly imposing itself as the communication standard in automation technology. The goal is to create a vertical integration – that is to say: only one core computer, from the control level up to the industrial production plants - that will be able to control any device.

A minimal cycle time of < 1 ms is the prerequisite for this. The Sendix EtherCAT encoders demonstrate their abilities in the following application examples: wood processing machines, printing machines, automotive industry and conveyor technology.



Fully digital and bidirectional Sendix absolute encoders with BiSS-C interface

Easy integration. The Open Source interface BiSS-C realises a bidirectional isochronous communication between drive, inverter and sensor. The position and status feedback is transmitted in real time, faster than in standard field bus and Ethernet systems. Motor data and maintenance information can be saved in the encoder and read out.



Characteristics and advantages at a glance

- Singleturn resolution up to max. 21 bits
 - ▶ Faster positioning, plant performance increase
- Cost-efficient and not proprietary / Open Source
 - ▶ Independent and flexible
- Motor feedback ability
 - ▶ No interruption in position transmission
- Fast and easy implementation
 - ▶ Free of cost BiSS-C IPs on processors and FPGAs



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Applications

Until now, the direct drive branch was using singleturn absolute encoders with an additional SinCos incremental track. The Sendix absolute encoders with BiSS-C interface are the future fully digital

solution and prove their technological advance in the following application examples: gearless drives, lift technology and packaging machines.



Robust and accurate Sendix 5814 / 5834 SinCos encoders

Highly interpolable. The incremental Sendix 5814 / 5834 SinCos encoders are predestined for regulation tasks in the drive technology. These optical encoders ensure consistently high signal quality in spite of temperature fluctuations, shocks and vibrations in harsh environments, allowing high interpolation up to 16 bits.



Characteristics and advantages at a glance

- Robust housing, optical sensors
 - ▶ Direct attachment to the motor, magnetic field-insensitive
- High signal quality and high interpolation
 - ▶ Therefore high regulation accuracy
- High temperature range and high IP65 protection level
 - ▶ High reliability for all application areas of the motor, even in harsh environmental conditions
- Robust: rugged Safety-Lock™ bearing construction, high IP67 protection level
 - ▶ Installation errors do not lead to encoder damages, suitable for use in harsh environments



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Applications

The drives technology requires the encoders to measure even smallest movements, creep speed or very slow approach or braking movements with highest accuracy and without dead time or delay. To that purpose, the incremental Sendix encoders with SinCos interface provide highly interpolable SinCos differential signals with $U = 1 V_{pp}$.

Other strengths of the incremental Sendix encoders appear among others in the following applications: standard motors, geared motors, large motors.



Incremental and safe Sendix ATEX 7000 encoders

Explosion protection. The incremental Sendix ATEX 7000 encoders are suitable for explosive atmospheres. Thanks to the explosion-proof enclosure made of sea water-resistant aluminium and a high protection level, these encoders are approved for zones 1, 2, 21 and 22. Their compact construction, with a diameter of only 70 mm allows easy mounting even where space is tight.



Characteristics and advantages at a glance

- ATEX and IECEx approval
 - ▶ Highest safety in explosive atmospheres
- Robust construction: explosion-proof enclosure, sea water-resistant aluminium
 - ▶ Reliable, shock and vibration-resistant
- Reduced installation depth and compact cable outlet
 - ▶ Easy installation in restricted mounting space
- IP67 protection level
 - ▶ Offers high safety and is suitable for harsh environments



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Applications

In explosive industries, high plant availability and the best protection possible for men and for the environment have highest priority. Strict protection provisions place great demands on the measuring devices - the Sendix ATEX encoder has been tested and certified pursuant to these provisions.

With regard to safety and reliability, this encoder shows its abilities in a wide range of applications such as, for example: mining, chemical industry, offshore plants, painting plants and process automation.



Explosion-proof and certified Sendix SIL ATEX encoders

Extremely safe. The certified incremental and absolute Sendix SIL encoders with explosion protection are suitable for explosive atmospheres and comply with all Functional Safety requirements. In addition, the extraordinary robustness of the Sendix SIL encoders ensures further protection. Extra strong bearings in Safety-Lock™ design give these encoders a high resistance to vibrations and installation errors.



Characteristics and advantages at a glance

- In one device: certification from SIL2/PLd up to SIL3/PLLe, ATEX and IECEx
 - ▶ Highest safety in explosive atmospheres
- Robust bearing structure in Safety-Lock™ Design, explosion-proof enclosure
 - ▶ Installation errors do not lead to standstill, shock and vibration-resistant
- High IP67 protection level and sea water-resistant aluminium housing
 - ▶ Suitable for particularly harsh environments
- Reduced installation depth and compact cable outlet
 - ▶ Easy installation in restricted mounting space



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Applications

More safety would not be possible. For the first time, functional safety and explosion protection are combined in one encoder. In explosive industries, high plant availability and the best protection possible for men and for the environment have highest priority.

With regard to safety and reliability, the Sendix SIL encoders show their abilities in the following application examples: mining, chemical industry, offshore plants.



Extremely robust and flexible Sendix Heavy Duty H120 encoders

For the very heavy cases. Thanks to the special HD-Safety-Lock™ construction, the Sendix Heavy Duty encoders are ideally suited for applications in heavy industry, such as steel works and cranes.

NEW: Integrated optical fibre connection for highest safety also in case of long distances.



Characteristics and advantages at a glance

- HD-Safety-Lock™ - extremely high permissible bearing load
 - ▶ Ideally suited for Heavy Duty applications
- Integrated bearing isolation up to 2.5 kV
 - ▶ Prevents bearing damages due to shaft currents
- Large hollow shaft up to $\varnothing 28$ mm
 - ▶ One series can be used for all large motors
- Easy and toolless mounting
 - ▶ Fast installation and start-up – saves time and costs
- Numerous connection variants: cable, connector, terminal box or optical fibre connection
 - ▶ Flexible and reliable connection solutions



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Applications

Reliability is the most important feature, in particular in plants with very high operating costs. In spite of harsh environmental conditions, the devices must deliver accurate rotary speed information for the plant.

The characteristics of the Sendix Heavy Duty encoders are predestined for these requirements and demonstrate their abilities in many various applications such as for example: steelworks, crane systems, generators for wind energy plants, oil platforms and offshore plants, paper industry.



Versatile and accurate Sendix F58 encoders

Intelligent Scan Technology™. These optical absolute multiturn encoders in 58 mm size are characterised by their award-winning Intelligent Scan Technology™ and their through hollow shaft reaching 15 mm.

This technology integrates all singleturn and multiturn functionalities on an OptoASIC and offers high resolution up to 41 bits, 100% magnetic field resistance and cost-efficiency, making these encoders suitable for a wide variety of applications.



Characteristics and advantages at a glance

- Robust: Safety-Lock™ bearing construction, high IP67 protection level
 - ▶ Installation errors do not lead to standstill, suitable for harsh environments
- Magnetic sensors used because of their low cost can now be replaced with cost-efficient and high-accuracy optical sensors
 - ▶ High performance, high efficiency
- Speed: position update < 1 µm, clock frequencies up to 10 MHz
 - ▶ High-resolution real-time feedback, plant improvement and machine performance increase
- Flexible: wide variety of connecting and mounting techniques, SET button and status LED
 - ▶ The right solution for every application, easy commissioning



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Applications

The Intelligent Scan Technology™ is the answer to fundamental trends in automation: cost-efficiency, robustness and speed. The Sendix F58 encoders demonstrate their abilities in the following application examples:

general automation technology, packaging machines, wind / solar power plants and drive technology. With their ø 15 mm through hollow shaft, these encoders are suitable also for large drives.



Compact and accurate Sendix F36 encoders

Intelligent Scan Technology™. These optical absolute singleturn and multiturn encoders distinguish themselves particularly by their compact 36 mm size and the award-winning Intelligent Scan Technology™. This technology integrates all singleturn and multiturn functionalities on an OptoASIC and offers high resolution up to 41 bits, 100% magnetic field resistance and cost-efficiency. This construction allows a through hollow shaft up to 8 mm.



Characteristics and advantages at a glance

- Robust: Safety-Lock™ bearing construction, high IP67 protection level
 - ▶ Installation errors do not lead to standstill, suitable for harsh environments
- Magnetic sensors used because of their low cost can now be replaced with cost-efficient and high-accuracy optical sensors
 - ▶ High performance, high efficiency
- Miniaturised: compact 36 mm construction, hollow shaft up to ø 8 mm, blind hollow shaft up to ø 10 mm
 - ▶ Ideal for restricted mounting spaces
- Speed: position update < 1 µm, clock frequencies up to 10 MHz
 - ▶ High-resolution real-time feedback, plant improvement and machine performance increase



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Applications

The Intelligent Scan Technology™ is the answer to fundamental trends in automation: cost-efficiency, miniaturisation and speed. The compact Sendix F36 encoders demonstrate their abilities in the following application examples:

general automation technology, packaging machines, drive technology - especially for small drives.



Absolute and contactless Magnetic measuring systems Limes LA10 / BA1

Contactless. With a high resolution of 1 μm and optional SinCos signals, the absolute linear magnetic measuring systems Limes LA10 / BA1 are predestined for use in the linear drive technology. Their rugged construction and their high protection level allow accurate measurements in harsh environments.



Characteristics and advantages at a glance

- High resolution - 1 μm / measuring length max. 8 m
 - ▶ Accurate absolute positioning
- Compact design / easy installation
 - ▶ For tight installation spaces, saves installation time
- Interfaces: SSI, CANopen and additional SinCos signals
 - ▶ Suitable for drive positioning and regulation
- Contactless magnetic absolute measuring technology
 - ▶ No wear, no referencing moves required



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Applications

Compact - accurate - simple. The absolute linear magnetic measuring systems Limes LA10 / BA1 stand out with a compact design, accurate sensors and simple commissioning. They suit particularly for applications requiring accurate position information and a precise regulation of the linear axis.

The measuring systems Limes LA10 / BA1 show these and further strengths for example in the following applications: packaging and injection moulding machines, electrical linear motors and medical technology.



Absolute and contactless Magnetic measuring systems Limes LA50 / BA5

Contactless. The absolute linear magnetic measuring systems Limes LA50 / BA5 with a resolution of up to 10 µm are suitable for general linear automation tasks. They are characterised by the position change detection even after a power shutdown and by a large distance between the sensor and the magnetic tape. The integrated LED warns in case of a weak magnetic field and helps in the same time to ensure an error-free installation.



Characteristics and advantages at a glance

- Resolution - 10 µm / measuring length max. 20 m
 - ▶ Accurate absolute positioning
- Position changes are detected even after a power shutdown
 - ▶ Therefore no referencing move required any more
- Large distance between the sensor and the magnetic tape (1.5 mm)
 - ▶ Insensitive with respect to mounting tolerances
- Contactless magnetic absolute measuring technology
 - ▶ No wear, resistant against dust and dirt
- Warning signals via LED
 - ▶ Easy and error-free commissioning

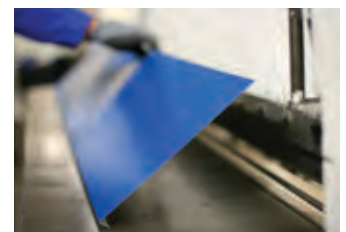


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Applications

Robust - versatile - simple. These absolute linear magnetic measuring systems Limes LA50 / BA5 suit any application in the general linear drive technology, thanks to their compact and rugged die-cast zinc housing, the various interfaces and the easy commissioning.

They show their strengths in the following application examples: conveyor technology, wood and metal processing machines, packaging machines as well as medical technology.



Miniaturised and simple Draw wire encoder A30

Cost-effective. The draw wire encoders A30 with analogue output are particularly suitable for applications with low motion speeds. Their miniaturised construction simplifies their installation when space is tight.



Characteristics and advantages at a glance

- Compact and cost-effective
 - ▶ Economical solution for short measuring lengths
- Standardised interfaces: potentiometer, voltage or current output
 - ▶ Universal use
- Max. speed 0.8 m/s, max. measuring length 0.6 m
 - ▶ Ideal for applications with low requirements



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Applications

The exact control and monitoring of positions in a wide range of applications require highly accurate position detection. The sensors used to that purpose must at the same time be cost-efficient and durable, and have the highest repeatability possible.

With these features, the draw wire encoder A30 shows its strengths among others in the following applications: storage system technology, conveyor technology, medical technology, testing technology.



Compact and accurate Draw wire encoder A41

Mobile-Robust. The draw wire encoders A41 meet especially the requirements of the mobile automation. With their compact construction and rugged housing, they are intended in particular for this application.

The draw wire encoder A41 equipped with absolute multturn encoders supplies highly accurate and exact position information.



Characteristics and advantages at a glance

- Compact draw wire encoders with absolute multturn encoder
 - ▶ High-performance and small dimensions
- Robust construction: rugged die-cast zinc housing and stainless steel measuring wire
 - ▶ Ideal for applications in harsh environments
- Max. speed 1 m/s, max. measuring length 2 m
 - ▶ The performance you need for your application



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Applications

The exact control and monitoring of positions in a wide range of applications require highly accurate position detection. The sensors used to that purpose must at the same time be cost-efficient, have a robust structure and the highest repeatability possible.

With these features, the draw wire encoder A41 shows its strengths among others in the following applications: elevating tables, construction machinery, medical technology, mobile cranes.



Slim and flexible Draw wire encoder B75

Mobile-Robust. With their robust construction, the draw wire encoders B75 are predestined for outdoor use. The draw wire mechanics can be equipped with an analogue sensor, incremental or absolute Sendix encoders. The design of these draw wire encoders allows flexible installation possibilities.



CANopen®



Characteristics and advantages at a glance

- Slim, compact construction with variable mounting possibilities
 - ▶ Simple and individual mounting, suitable for restricted installation space
- Low-wear wire exit, rugged die-cast zinc housing
 - ▶ Ideal for applications with average speeds in harsh environments
- Draw wire mechanics with analogue sensor or encoder
 - ▶ Flexible adaptation depending on the application
- Max. speed 0.8 m/s, measuring length max. 3 m
 - ▶ The performance you need for your application



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Applications

The exact control and monitoring of positions in a wide range of applications require highly accurate position detection: the sensors used to that purpose must at the same time be cost-efficient, have a robust structure and the highest measurement repetition rate possible.

With these features, the draw wire encoder B75 shows its strengths among others in the following applications: fire engines, work and rescue platforms, mobile cranes, storage system technology.



It's good to feel safe Safety Services

Service packages. The intelligent combination of Sendix SIL encoders and Safety-M modules, which allows a simple implementation of safe drive monitoring, is supplemented with four graduated service packages. These include a risk assessment, the elaboration of a safety concept, the start-up / validation of the plant, up to the safety retrofitting.



Scope of the various service packages

- Risk Assessment Package: Research for relevant directives and standards, risk analysis, documentation
- Safety Concept Package: Risk Assessment Package + selection of the safety components
- Start-up / Validation Package: Installation and acceptance of the components, functional test of the plant, documentation
- Safety Retrofit Package: All packages + mechanical and electrical installation of the components
 - ▶ Avoids cost-intensive errors
 - ▶ The customer obtains, without great efforts, a safe plant and a legally compliant documentation
 - ▶ The whole from one single source: short communication channels, only one contact person



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Applications

Safety is - not least since the EU Machinery Directive 2006/42/EC - an "integral part of the construction of plants." Not only a safe plant, but also the safety of man must be guaranteed. Here, the Sendix SIL products combined with the graduated service packages can provide for help.

Application areas of the functional safety can be found for example in the following applications: machinery and plant engineering, cranes, steel, wind, stage technology, logistics and conveyor technology.



Robust and safe Sendix SIL encoders

Safety. With their interfaces and incremental SinCos tracks, the certified incremental and absolute Sendix SIL encoders are ideally suited for safe applications.

Together with the certified mechanical mounting solutions, their robust construction and their high protection level ensure reliable and individual operation even in harsh environments.



Characteristics and advantages at a glance

- Certified encoders from SIL2/PLd up to SIL3/PLe
 - ▶ Simple safety assessment for electrical components
- Certified mechanical mounting solutions
 - ▶ Flexible and easy, safe mechanical interfaces
- Robust: rugged Safety-Lock™ bearing construction, high IP67 protection level
 - ▶ Installation errors do not lead to standstill, suitable for harsh environments
- Optical sensors
 - ▶ 100% magnetic field-resistant, high signal quality

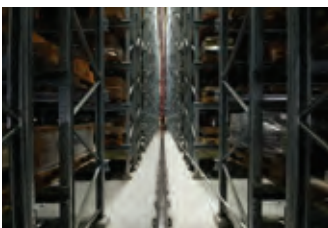


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Applications

Focus is set on functional safety. Machines and plants that fall within the scope of Machinery Directive 2006/42/EC must meet the high requirements regarding personal protection. The safe interaction between the plant and the user is made possible thanks to certified Sendix SIL encoders.

The measurement of the safe rotary speed, speed and position is one of the strengths of these encoders, which demonstrate their abilities in the following application examples: cranes, stage technology, machinery and plant engineering, steel industry, wind power plants, logistics and conveyor technology.



Compact and low-maintenance Slip rings SR060E

New generation of slip rings. The slip rings SR060E have been developed especially for the packaging industry. Their smooth and straight surfaces allow easy cleaning and therefore meet the requirements of the food processing industry.

Thanks to innovative contact materials, these slip rings do not require oiling any more. A particularly long service life is ensured.



Characteristics and advantages at a glance

- High load current transmission, up to 20A
 - ▶ Shorter and faster temperature control e.g. of sealing rollers
- IP64 protection level
 - ▶ Easy cleaning with a damp cloth or a water jet
- Innovative contact material silver/bronze, silver/precious metal
 - ▶ Vacuum cleaning is sufficient, no contact oil required, long service life
- 10 times longer maintenance intervals (100 million revolutions) than with conventional gold/gold wire slip rings
 - ▶ Less machine standstills, increased productivity



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Applications

On packaging devices, slip rings are in charge of the rotary transmission of currents, signals or data between stationary and rotating platforms. The SR060E is designed for up to 3 load and 2 signal transmissions and shows its strengths in many different applications:

from the heating and monitoring of the sealing rollers in blister or tubular bag machines (or Flow Pack) to the use in balancing devices and indexing tables.



Compact and maintenance-free Slip rings SRI085

New inductive technology. The slip ring SRI085 has been developed for the packaging industry. Signal transmission takes place without contact thanks to the innovative inductive technology. The slip ring is therefore maintenance-free, with a long service life.

The modular system ensures a product tailored individually to the application.



Characteristics and advantages at a glance

- Non-contact signal transmission
 - ▶ No plant standstill, no abrasion dust
- Modular system
 - ▶ Tailored to the application, flexible combination of load and signal channels
- Max. protection level IP64
 - ▶ Easy cleaning with a damp cloth or a water jet
- 3 x PT100 and max. 6 load channels, max. 25 A
 - ▶ Therefore shorter cycle times are possible



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Applications

On packaging devices, slip rings are in charge of the rotary transmission of currents, signals or data between stationary and rotating platforms. The SRI085 is designed for up to 6 load and 3 signal transmissions and shows its strengths in many different applications, such as for example:

from the heating and monitoring of the sealing rollers in tubular bag machines (or Flow Pack) up to the use in indexing tables, balancing devices or textile machines.



Flexible and cost-efficient Slip rings SR085B

New generation of slip rings. The slip rings SR085B stand out with their flat construction and reduced length. The advantage of this compact size becomes particularly obvious during its easy installation in restricted mounting spaces. This bearingless modular system can be extended with individual transmission channels. The innovative contact materials ensure a long service life and high reliability.



Characteristics and advantages at a glance

- Compact design: flat construction and reduced length
 - ▶ Easy installation in restricted mounting spaces (from a mounting depth of 33 mm)
- Flexible and bearingless modular system
 - ▶ Customer-specific and cost-efficient product for slow-rotating applications up to 200 rpm
- Touch-protected system: protection level IP40
 - ▶ No penetration of foreign matter possible



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Applications

Slip rings are in charge of the rotary transmission of currents, signals or data between stationary and rotating platforms.

The SR085B is designed for up to 10 transmission channels and shows its strengths in many different applications such as for example: revolving doors, indexing tables.



Kübler worldwide

Kübler Group

Fritz Kübler GmbH,
Germany
Schubertstraße 47
D-78054
Villingen-Schwenningen
Phone +49 7720 39 03-0
Fax +49 7720 21 56 4
info@kuebler.com
www.kuebler.com

Fritz Kübler SARL,
France
2 rue de Grande Bretagne
F-68310 Wittelsheim
Phone +33 3 89 53 45 45
Fax +33 3 89 53 66 77
info@kuebler-sarl.com
www.kuebler.fr

Kübler Italia S.r.l.,
Italy
Viale F. Testi 287
I-20162 Milano
Phone +39 026 423 345
Fax +39 026 611 3843
info@kuebler.it
www.kuebler.it

Kubler SP. Z O.O.,
Poland
I. Dabrowskiego 441
PL-60-451 Poznan
Phone +48 61 84 99 902
Fax +48 61 84 99 903
info@kubler.pl
www.kubler.pl

Kübler Turkey Otomasyon
Ticaret Ltd. Sti.
Turkey
Yeni mahalle Balikesir Cad.
Uprise Elit Residence C1 AB Blok
No:180 Soganlik
TR - 34880 Kartal/Istanbul
Phone: +90 216 999 9791
Fax: +90 216 999 9784
cengizhan.temurcin@kuebler.com
www.kuebler.com

Kuebler (Beijing) Automation
Trading Co. Ltd.,
China
4404 Zhongyun Building-2
No. 208
Lize Zhongyuan Erqu Wangjing
New Industrial Park
Chaoyang District Beijing,
100102
Phone +86 10 5134 8680
Fax: +86 10 5134 8681
kuebler.china@kuebler.com
www.kuebler.cn

Kuebler Automation India Pvt. Ltd.
India
Plot No 677, S.No. 269/3,
Paud Road, Bhugaon,
Pune 412 108,
Maharashtra
Phone +91 99 7065 5599
Tel. +91 20 6790 1-200 / 230 /
214 / 202
Fax +91 20 6790 1232
info@kuebler.in
www.kuebler.in

Kuebler Korea (by F&B),
South Korea
578, Kwaebop-dong, Sasang-ku
Pusan Industrial Supplies
Market 9-116
ROK-PUSAN
Phone +82 51 319 12 30
Fax +82 51 319 12 50
fnb@kuebler.co.kr
www.kuebler.kr

Kuebler Inc.
USA
5245-3 Old Dowd Road
Charlotte, NC 28208
Phone +1-704-705-4711
Toll Free +1-855-KUEBLER (583-2537)
Fax +1-704-733-9170
usa@kuebler.com
www.kuebler.com/usa

Europe

Austria
Balluff GmbH
Industriestraße B16
A-2345 Brunn am Gebirge
Phone +43 22 36 3 25 21-0
Fax +43 22 36 3 25 21 46
sensor@balluff.at
www.balluff.at

Belarus
FEK Company
Pushkin Ave., 29B
BY-220015 Minsk
Phone +375 17 202 68 00
Fax +375 17 202 68 01
turck@fek.by
www.turck.by

Belgium
Multiprox N.V.
Lion d'Orweg 12
B-9300 Aalst
Phone +32 53 76 65 66
Fax +32 53 78 39 77
mail@multiprox.be
www.multiprox.be

Bulgaria
Sensomat GmbH
D-r Ivan Penakov Str
15-W-4-11
BG-9300 Dobritsch
Phone +359-58-603023
Fax +359-58-603033
info@sensomat.info
www.sensomat.info

Croatia
Bering d.o.o.
Naselje Tršinski 7b
HR-49210 Zabok
Phone +385 49 221 182
Fax +385 49 223 658
bering@email.t-com.hr
www.bering.hr

Czech Republic
TURCK s.r.o
Hradecká 1151
CZ-500 03 Hradec Králové
Phone +420 - 4 95 51 87 66
Fax +420 - 4 95 51 87 67
turck-cz@turck.com
www.turck.cz

Denmark
Hans Folsgaard A/S
Theilgaardstr. 1
DK-4600 Køge
Phone +45 43 20 86 00
Fax +45 43 96 88 55
hf@hf.net
www.hf.net

Estonia
Standel AS
Kiisa 8
EE-11313 Tallinn
Phone +372 6 558 180
Fax +372 6 558 179
standel@standel.ee
www.standel.ee

Finland
Sähkölehto Oy
Holkitie 14
FIN-00880 Helsinki
Phone +358 9 774 6420
Fax +358 9 759 1071
office@sahkolehto.fi
www.sahkolehto.fi

Murri
Koukkukatu 1
FIN-15700 Lahti
Phone +358 3 882 4000
Fax +358 3 882 4040
myynti@murri.fi
www.murri.fi

France
Fritz Kübler S.à.r.l.
Compteurs et codeurs
industriels
2 rue de Grande Bretagne
F-68310 Wittelsheim
Phone +33 3 89 53 45 45
Fax +33 3 89 53 66 77
info@kuebler-sarl.com
www.kuebler.fr

Great Britain
OEM Automatic Ltd
Whiteacres, Cambridge Road
Whetstone
GB-Leicester LE8 6ZG
Phone +44 116 284 99 00
Fax +44 116 284 17 21
information@uk.oem.se
www.oem.co.uk

Greece
Industrial Automation
Systems
L.J. Skourgialos
241, El. Venizelou Ave.
GR-176 73 Kallithea - Athens
Phone +30 210 9510260
Fax +30 210 9511048
info@ias.gr
www.ias.gr

Hungary
Kvalix Automatika Kft.
Kiss Ernő u. 1-3
H-1046 Budapest
Phone +36 1 272 2242
Fax +36 1 272 2244
info@kvalix.hu
www.kvalix.hu

Iceland
Reykjafell Ltd.
Skiptiholti 35
IS-125 Reykjavik
Phone +354 5 88 60 00
Fax +354 5 88 60 88
reykjafell@reykjafell.is
www.reykjafell.is

Ireland
Kübler Group
Fritz Kübler GmbH
Schubertstr. 47
D-78054
Villingen-Schwenningen
Phone +49 7720 3903-0
Fax +49 7720 21564
info@kuebler.com
www.kuebler.com

Italy
• Encoders:
Kübler Italia Srl.
Viale F. Testi 287
I-20162 Milano
Phone +39 026 423 345
Fax +39 026 611 3843
info@kuebler.it
www.kuebler.it

• Counters and process
devices:
MAS AUTOMAZIONE S.R.L.
Via G. Galilei 20
I-20090 Segrate (MI)
Phone +39 02 26 92 20 90
Fax +39 02 26 92 16 87
info@masautomazione.it
www.masautomazione.it

Lithuania
UAB JML GROUP
Naugarduko g. 91-108,
LT-03160, Vilnius, Lietuva
Phone +370 700 01760
Phone +370 5 2133603
Fax. + 3705 2159198
info@jml-group.lt
www.jml-group.lt

Netherlands
Duranmatic B.V.
Robijn 800
NL-3316 KE Dordrecht
Phone +31 78 631 05 99
Fax +31 78 613 11 33
info@duranmatic.nl
www.duranmatic.nl

Norway
ELTECO AS
Floodmyrveien 24
N-3946 Porsgrunn
Phone +47 35 56 20 70
Fax +47 35 56 20 99
firmapost@elteco.no
www.elteco.no

Poland
Kubler Sp. z o.o.
ul. Dabrowskiego 441
PL-60-451 Poznan
Phone +48 61 849 99 02
Fax +48 61 849 99 03
info@kubler.pl
www.kubler.pl

ASTAT sp. z o.o.
ul. Dabrowskiego 441
PL-60-451 Poznan
Phone +48 61 848 8871
Fax +48 61 848 8276
info@astat.com.pl
www.astat.com.pl

• Electronic counters and
process displays:
IMPOL-1 Sp.J.
ul. Krakowiaków 103
PL-02-255 Warszawa
Phone +48 22 886 56 02
Fax +48 22 886 56 04
biuro@impol-1.pl
www.impol-1.pl

• Encoders:
OEM AUTOMATIC Sp. z o.o.
ul. Postępu 2
PL-02-676 Warszawa
Phone +48 22 863 27 22
Fax +48 22 863 27 24
info@pl.oem.se
www.oemautomatic.com.pl

Portugal
LA2*P, Lda.
Rua Teófilo Braga, 156 A
Escrit. F - Edifício S. Domingos
Cabeço do Mouro
PT-2785 - 122 S. Domingos
de Rana
Phone +351 21 444 70 70
Fax +351 21 444 70 75
la2p@la2p.pt
www.la2p.pt

Romania
Syscom 18 SRL
Calea Plevnei 139B, Sector 6
RO-060011 Bucharest
Phone +40 21 310 26 78
Fax +40 21 316 91 76
syscom@syscom18.com
www.syscom.ro

Russia
Servotechnica ZAO
Klara Tsetkin str. 33/35
RUS-125130 Moscow
Phone +7 495 797 8866
Fax +7 495 450 0043
info@servotechnica.ru
www.servotechnica.ru

Sweden
• Counters and process
devices:
Flexitron AB
Box 7117
S-18712 Täby
Phone +46 87 32 85 60
Fax +46 87 569 132
sales@flexitron.se
www.flexitron.se

• Encoders:
OEM AUTOMATIC AB
Dalagatan 4, Box 1011
S-57328 Tranås
Phone +46 75-242 4100
Fax +46 75-242 4119
info@aut.oem.se
www.oemautomatic.se

Serbia
RAP Electronics d.o.o.
Dorda Stanojevic 11-17
SRB-11070 Novi Beograd
Phone +381 11 6300636
Fax +381 11 6300635
office@rapelectronics.co.rs

Slovakia
S.D.A. s. r. o.
Jána Bottu 4
SK-974 01 Banská Bystrica
Phone +421 48 472 34 11
Fax +421 48 472 343 69
sekretariat@s-d-a.sk
www.s-d-a.sk

Slovenia
SENZORJI SB d.o.o.
Livadna ulica 1
SLO-2204
Miklavž na Dravskem polju
Phone +386 2 6 29 03 00
Fax +386 2 6 29 03 02
senzorji.sb@siol.net
www.senzorji-sb.si

Spain
Elion, S.A.
Farell, 5
E-08014 Barcelona
Phone +34 93 298 20 00
Fax +34 93 43 93 18 00
elion@elion.es
www.elion.es

Switzerland
(French)
Fritz Kübler S.à.r.l.
2 rue de Grande Bretagne
F-68310 Wittelsheim
Phone +33 3 89 53 45 45
Fax +33 3 89 53 66 77
info@kuebler-sarl.com
www.kuebler.fr

(Italian)
Kübler Italia Srl.
Viale F. Testi 287
I-20126 Milano
Phone +39 0 26 42 33 45
Fax +39 0 26 61 13 843
info@kuebler.it
www.kuebler.it

(German)
Fritz Kübler GmbH
Schubertstraße 47
D-78054
Villingen-Schwenningen
Phone +49 7720 39 03-58
Fax +49 7720 21 56 4
vedrana.solic@kuebler.com
www.kuebler.com

Turkey
Kübler Turkey Otomasyon
Ticaret Ltd. Sti.
Yeni mahalle Balikesir Cad.
Uprise Elit Residence C1 AB Blok
No:180 Soganlik
TR - 34880 Kartal/Istanbul
Phone +90 216 999 9791
Fax: +90 216 999 9784
cengizhan.temurcin@kuebler.com
www.kuebler.com

• Encoders, process devices
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Sanil Teknik
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Okçumusa Caddesi
Tusak Sokak
No: 27/5 Karaköy
TR-34420 Istanbul
Phone +90 212 256 94 28
Fax +90 212 256 94 04
sanil@sanil.com.tr
www.sanil.com.tr

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ERUZ Elektrik San. ve Tic. A.S.
Necatibey Caddesi
Sait Demirbag Han No.5 K.1
TR-34425 Istanbul
Phone +90 212 2 93 60 36
Fax +90 212 2 44 51 56
eruzelektrik@eruzelektrik.com.tr
www.eruzelektrik.com.tr

Ukraine
SV Altera Ltd.
4, Ivana Lepshe blvd, Kyiv,
UA-03680 Ukraine
Phone +38 044 496-18-88
Fax +38 044 496-18-18
office@sv-altera.com
www.svaltera.ua

America, Asia, Australia, Africa

**Catalogue distributors:
(Europe)**

Austria
Farnell GmbH
Birkenstrasse 2
A-5300 Salzburg/Hallwang
Phone +43 662 - 218 06 80
Fax +43 662 - 218 06 70
verkauf.at@farnell.com
www.farnell.at

RS Components
Albrechtstr. Straße 11
A-3950 Gmünd
Phone +43 28 52 505
Fax +43 28 52 53 223
www.rs-components.at

France
RS Components SAS
Rue Norman King BP 40453
F-60031 Beauvais CEDEX
Phone +33 3 44 10 16 48
Fax +33 3 44 10 16 44
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Farnell France SAS
81-83 rue Henri Depagneux
BP 60426 Limas
F-69654 Villefranche sur
Saône
Cedex
Phone +33 4 74 68 99 99
Fax +33 4 74 68 99 90
ventes@farnell.com
www.farnell.fr

Great Britain
RS Components Ltd.
PO Box 99, Corby
GB-Northants NN17 9RS
Phone +44 84 58 50 99 00
Fax +44 15 36 40 56 78
www.rs-components.com

Farnell
Canal Road
GB-Leeds, LS12 2TU
Phone +44 8447 11 11 11
Fax +44 8447 11 11 13
sales@farnell.co.uk
www.farnell.co.uk

Italy
RS Components S.p.A.
Via De Vizzi 93/95
I-20092, Cinisello Balsamo,
Milano
Phone +39 02 660 581
Fax +39 02 660 580 51
www.rs-components.it

Distrelec Italia s.r.l.
Via Canova 40/42
I-20020 Lainate (Mi)
Phone +39 02 - 93 75 51
Fax +39 02 - 93 75 57 55
info-it@distrelec.com
www.distrelec.com

Switzerland
Distrelec AG
Grabenstraße 6
CH-8606 Nänikon
Phone +41- 44 9 44 99 11
Fax +41- 44 9 44 99 88
www.distrelec.com

Farnell AG
Brandschenkestr. 178
Postfach 1703
CH-8027 Zürich
Phone +41 1 - 204 64 64
Fax +41 1 - 204 64 54
verkauf.ch@farnell.com
www.farnell.ch

Micronor AG
Pumpwerkstraße 32
CH-8105 Regensdorf
Phone +41 44 843 40 20
Fax +41 44 843 40 39
sales@micronor.ch
www.micronor.ch

Argentina
AUMECON S.A.
Acassuso 4768
1605 Munro
Prov. de Buenos Aires
Phone +54 11 47 56 1251
Fax +54 11 47 62 63 31
ventas@aumecon.com.ar
www.aumecon.com.ar

Australia
Balluff Leuze Pty. Ltd.
12 Burton Court
Bayswater, Vic. 3153
Phone +61 3 97 20 41 00
Fax +61 3 97 38 26 77
sales@balluff.com.au
www.balluff.com.au

Brazil
Balluff Controles Elétricos Ltda.
Rua Francisco Foga 25,
Cx. Postal 189
CEP 13280-000 Vinhedo-SP
Phone +55 19 38 76 99 99
Fax +55 19 38 76 99 90
balluffbr@balluff.com.br.
www.balluff.com.br

Canada
Chartwell Automation Inc.
140 Duffield Drive
Markham, Ontario L6G 1B5
Phone +1 905 513 7100
Fax +1 905 513 7101
info@www.chartwell.ca
www.chartwell.ca

Chile
Electronica industrial
El Schädler y Cia. Ltda.
Casilla 189-9
Av. Antonio Varas 1871
Providencia
Santiago
6641545
Phone +56 2 274 74 30
Fax +56 2 204 93 38
info@schadler.com

China
Kuebler (Beijing) Automation
Trading Co. Ltd.
4404 Zhongyun
Building-2 No. 208
Lize Zhongyuan Erqu
Wangjing New Industrial Park
Chaoyang District ... Beijing,
100102
Phone +86 10 5134 8680
Fax +86 10 5134 8681
beijing@kuebler.com
www.kuebler.cn

Egypt
AEE Advanced Electronic
Engineering Co.
3 Hassan El-Sheraie St.Off
El-Horiya St-Heliopolis
Cairo
Phone +20 2 2418 50 20
Fax +20 2 2415 92 65
hfarid@aecontrols.com
www.aeecontrols.com

Hong Kong
Po Kwong Electric (HK) Ltd.
Rm. 177-180, 1/F, Bk C,
Hang Wai Ind. Ctr.,
6 Kin Tai St., Tuen Mun, N.T
Phone +852 24 23 66 22
Fax +852 24 61 10 02
sales@pokwong.com
www.pokwong.com

India
Kuebler Automation India Pvt Ltd
Plot No 677, S. No. 269/3,
Paud Road, Bhugaon,
Pune 412 108,
Maharashtra
Phone +91 99 7065 5599
Tel. +91 20 6790 1-200/ 230/
214/ 202
Fax +91 20 6790 1232
info@kuebler.in
www.kuebler.in

Rajdeep Automation Pvt. Ltd.
G3A, Anand Estate, Ground floor
Sane Guruji Marg, Mahalaxmi
Mumbai 400 011
Phone +91 22 23 00 28 37 / 8
Fax +91 22 23 00 2839
info@rajdeep.in
www.rajdeep.in

Indonesia
SUPRA Engineering
Jl. Pecenongan 17 D
RI-10120 Jakarta
Phone +62 21 345 73 55
Fax +62 21 345 73 18
astina@centrin.net.id
www.supra.co.id

Israel
Omega Engineering
P.o.Box 190
Ein Carmel 30860
Phone +972-4-9544993
Fax +972-4-9544992
info@omegae.net
www.omegae.net

Lebanon
Industrial Technologies S.A.L
(ITEC)
Blvd. Fouad Chehab
Point Center, Sin El Fil, Beirut
Phone +961 (1) 491161
Fax +961 (1) 491162
info@iteclb.com
www.iteclb.com

Malaysia
dpStar Thermo Electric Sdn. Bhd.
No. 37-G, Pusat
Perdagangan One Puchong
Jalan OP 1/2 Off Jalan .47160
Puchong
Selangor
Malaysia
Phone +603 80 70 87 88
Fax +603 80 70 87 66
chrisliu@dpstar.com.my
www.dpstar.com.my

Mexico
Turck Mexico S.de R.L.de C.V.
Parque Industrial La Angostura
Zacatecas Km 4.5 Nave 8A
Saltillo, Coahuila 25315
Phone +52 844 411 6650
Toll Free: 01-800-01-TURCK
(Mexico only)
Fax +52 844 482 6926
mexico@turck.com
www.turck.com.mx

Morocco
r2i Consult SARL
109 rue Montaigne Val
Fleuri Maarif Casablanca
Maroc
Phone +212522986960
Fax +212522989537
info@r2imaroc.ma
www.r2imaroc.com

New Zealand
Carrel-Electrade Ltd.
P.O. Box 11-078
Ellerslie
NZ-Auckland 1542
Phone +64 95251753
Fax +64 95251756
sales@carrel-electrade.co.nz
www.carrel-electrade.co.nz

Philippines
Technorand Sales Corporation
Wilshire Annapolis Plaza,
Annapolis Street
San Juan, Metro Manila 1500
Phone +63 2 9850705
Fax +63 2 71 65 986
technorand@gmail.com

Singapore
Raymond International Pte. Ltd.
Blk 219 Henderson Road #07-04
Henderson Industrial Park
Singapore 159556
Phone +65 62 76 37 38
Fax +65 62 76 37 39
sales@raymondcom.com
www.raymondcom.com

South Africa
Kübler Group
Fritz Kübler GmbH
Schubertstr. 47
78054 Villingen-Schwenningen
Phone +49 7720 3903-0
Fax +49 7720 21564
info@kuebler.com
www.kuebler.com

South Korea
Kuebler Korea (by F&B)
578, Kwaebop-dong, Sasang-ku
Pusan Industrial Supplies
Market 9-116
PUSAN
Phone +82 51 319 12 30
Fax +82 51 319 12 50
fnb@kuebler.co.kr
www.kuebler.kr

Taiwan, R.O.C.
• Encoders, transmission
technology:
E-Sensors & Automation Int'l Corp.
6F-2, No.109, Chien Kuo 1st Rd.
Kaohsiung 80284
Taiwan, R.O.C.
Phone +886-7-7220371
Fax +886-7-7718161
ez-corp@umail.hinet.net
www.e-sensors.com.tw

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Canaan Electric Corp.
6F-5, No. 63, Sec. 2
Chang An East Road
Taipei
Phone +886 225 08 23 31
Fax +886 225 08 47 44
sales@canaan-elec.com.tw
www.canaan-elec.com.tw

Thailand
Technology Instruments Co., Ltd.
549/9 Onnut Road Kwaeng
Pravet, Khet Pravet
Bangkok 10250
Phone +662 74 388 88
Fax +662 74 388 43
marketing@tic.co.th
www.tic.co.th

Tunisia
H2M Technologies
13, Rue El Moutanabi
TN-2037 El Menzah 7 -Tunis
Phone +216 71 42 76 77
Fax +216 71 42 76 88
h2m.tech@planet.tn

U.S.A.
Kuebler Inc.
5245-3 Old Dowd Road
Charlotte, NC 28208
Phone +1-704-705-4711
Toll Free +1-855-KUEBLER
(583-2537)
Fax +1-704-733-9170
usa@kuebler.com
www.kuebler.com/usa

• Counting and process
technology:
Global Industrial Products Inc.
8129 North Austin AVE
Morton Grove, IL 60053
Toll-free number:
1-800-951-8774
Phone 847 965 9808
Fax 847 901 9846
sales@globalepower.com
www.kueblerusa.com

United Arabe Emirates
Baer Measurements LLC
P.O. Box 111393
Al Gaith Tower 505,
Hamdan Street
Abu Dhabi - UAE
Phone +971 2 627 2097
Fax +971 2 627 2091
info@bml.ae
www.bml-international.com

Vietnam
GNN Co., Ltd
153, Nguyen Van Thu
Da Koa Ward, District 1
Ho Chi Minh City
Phone +84 8 3517 4923
Fax +84 8 3517 4924
contact@gnnvietnam.com
www.gnnvietnam.com

Contact partners in Germany

PLZ 01000 ... 09999

PLZ 15000 ... 15999
Kübler Vertriebsbüro Süd-Ost
Lars Meyer
Durchfahrt 9
09569 Oederan
Phone +49 37292 283500
Fax +49 37292 283501
lars.meyer@kuebler.com

PLZ 10000 ... 14999

PLZ 16000 ... 19999
PLZ 20000 ... 32999
PLZ 38000 ... 39999
Kübler Vertriebsbüro Nord
Hermi Herrmann
Mohnblumenweg 6
28876 Oyten
Phone +49 4207 6880-32
Fax +49 4207 6880-34
hermi.herrmann@kuebler.com

PLZ 33000 ... 33999

Kübler Vertriebsbüro West
Torsten Czubkowski
Auf der Umcke 11 a
59757 Arnsberg
Phone +49 2932 891898
Fax +49 2932 53311
torsten.czubkowski@kuebler.com

PLZ 34000 ... 37999

Kübler Vertriebsbüro Mitte
Stefan Heinigk
Gartenstraße 10
35759 Driedorf
Phone +49 2775 578427
Fax +49 2775 578428
stefan.heinigk@kuebler.com

PLZ 40000 ... 47999

Kübler Vertriebsbüro West
Torsten Czubkowski
Auf der Umcke 11a
59757 Arnsberg
Phone +49 2932 891898
Fax +49 2932 53311
torsten.czubkowski@kuebler.com

PLZ 48000 ... 49999

Kübler Vertriebsbüro Nord
Hermi Herrmann
Mohnblumenweg 6
28876 Oyten
Phone +49 4207 6880-32
Fax +49 4207 6880-34
hermi.herrmann@kuebler.com

PLZ 50000 ... 54999

PLZ 55300 ... 55999
PLZ 56500 ... 56999
PLZ 58000 ... 59999
Kübler Vertriebsbüro West
Torsten Czubkowski
Auf der Umcke 11a
59757 Arnsberg
Phone +49 2932 891898
Fax +49 2932 53311
torsten.czubkowski@kuebler.com

PLZ 55000 ... 55299

PLZ 56000 ... 56499
PLZ 57000 ... 57999
Kübler Vertriebsbüro Mitte
Stefan Heinigk
Gartenstraße 10
35759 Driedorf
Phone +49 2775 578427
Fax +49 2775 578428
stefan.heinigk@kuebler.com

PLZ 60000 ... 65999

PLZ 67000 ... 67599
PLZ 68000 ... 69999
Kübler Vertriebsbüro Mitte
Stefan Heinigk
Gartenstraße 10
35759 Driedorf
Phone +49 2775 578427
Fax +49 2775 578428
stefan.heinigk@kuebler.com

PLZ 66000 ... 66999

PLZ 67600 ... 67999
Kübler Vertriebsbüro West
Torsten Czubkowski
Auf der Umcke 11a
59757 Arnsberg
Phone +49 2932 891898
Fax +49 2932 53311
torsten.czubkowski@kuebler.com

PLZ 70000 ... 79999

Kübler Vertriebsbüro Süd-West
Philipp Lang
Lembergstraße 6
72119 Ammerbuch-Altingen
Phone +49 7032 2293665
Fax +49 7032 2993454
philipp.lang@kuebler.com

PLZ 80000 ... 87999

PLZ 89200 ... 89499
Kübler Vertriebsbüro Süd
Bernhard Preißler
Am Seeacker 8
93326 Abensberg
Phone +49 9443 9186926
Fax +49 9443 9186974
bernhard.preissler@kuebler.com

PLZ 88000 ... 89199

PLZ 89500 ... 89999
Kübler Vertriebsbüro Süd-West
Philipp Lang
Lembergstraße 6
72119 Ammerbuch-Altingen
Phone +49 7032 2293665
Fax +49 7032 2993454
philipp.lang@kuebler.com

PLZ 90000 ... 93999

PLZ 95000 ... 95999
Kübler Vertriebsbüro Süd-Ost
Lars Meyer
Durchfahrt 9
09569 Oederan
Phone +49 37292 283500
Fax +49 37292 283501
lars.meyer@kuebler.com

PLZ 94000 ... 94999

Kübler Vertriebsbüro Süd
Bernhard Preißler
Am Seeacker 8
93326 Abensberg
Phone +49 9443 9186926
Fax +49 9443 9186974
bernhard.preissler@kuebler.com

PLZ 96000 ... 99999

Kübler Vertriebsbüro Mitte
Stefan Heinigk
Gartenstraße 10
35759 Driedorf
Phone +49 2775 578427
Fax +49 2775 578428
stefan.heinigk@kuebler.com

Approved system partners/ distributors

22149 Hamburg

Hermann Seidel GmbH
Techn. Vertretungen
Rahlstedter Str. 16
Phone +49 40 675085-0
Fax +49 40 675085-85
info@seidel-gmbh.de
www.seidel-gmbh.de

42499 Hückeswagen

Fuhrmeister + Co. GmbH
Industrie-Elektronik
Stahlschmidsbrücke 61
Phone +49 2192 851122
Fax +49 2192 851127
info@fuhrmeister-gmbh.de
www.fuhrmeister-gmbh.de

66287 Götterborn

Herbert Neundorfer
GmbH & Co. KG
Werksvertretungen
Am Campus 5
Phone +49 6825 9545-0
Fax +49 6825 9545-99
info@herbert-neundoerfer.de
www.herbert-neundoerfer.de

82069 Hohenschäftlarn

Bachmann
Electronic GmbH
Am Wagnerfeld 4
Phone +49 8178-8676-0
Fax +49 8178-8676-50
info@bachmann-electronic.de
www.bachmann-electronic.de

Catalogue distributors (Germany):

28359 Bremen

Distrelec Schuricht GmbH
Lise Meitner-Str. 4
Phone +49 1805 2234-35
Fax +49 1805 2234-36
scc@distrelec.de
www.distrelec.de

64546 Mörfelden-Walldorf

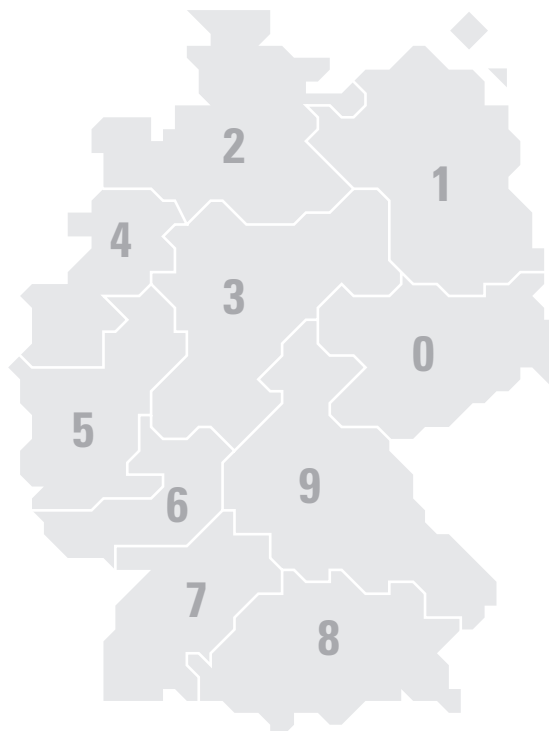
RS Components GmbH
Hessenring 13 b
Phone +49 6105 401234
Fax +49 6105 401100
www.rs-components.de

82041 Oberhaching

Farnell GmbH
Kaltenring 14
Phone +49 89 61393939
www.farnell.de

92240 Hirschau

Conrad Electronic SE
Klaus-Conrad-Straße 1
Phone +49 9622-30-4145
www.conrad.com



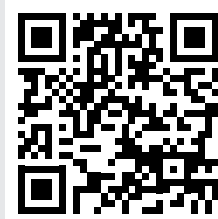


Kubler

Headquarters in Villingen-Schwenningen

Comercial Andaluza de Técnicas y Suministros, S.L. (CATS, S.L.) Málaga (España). Telf: +(34) 952 24 61 37 www.cats.es comercial@cats.es

www.kuebler.com



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Kübler Group
Fritz Kübler GmbH
Schubertstrasse 47
D-78054 Villingen-Schwenningen
Germany
Phone +49 7720 3903-0
Fax +49 7720 21564
info@kuebler.com
www.kuebler.com

R.100.644 11 120 13 ES