



SOLUTIONS FOR MOBILE AUTOMATION

ENCODERS, DRAW-WIRE ENCODERS INCLINOMETERS, SLIP RINGS COUNTERS AND PROCESS DEVICES

Solutions for mobile automation

Mobile automation is more diverse than any other industry. There are various requirements for the sensors due to the numerous applications. For many years, Kübler has offered a broad portfolio of encoders, draw-wire encoders, inclinometers as well as slip rings suitable for transmitting loads, signals and data. Every product stands for premium quality, robustness and a long service life. We are also happy to take on individual challenges and implement modifications and special solutions quickly and easily. With us, you will find the right solution for your application.



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Fire trucks / Ladder trucks / Rescue platforms

Developed for increasingly tough requirements: Kübler encoders, draw-wire systems, slip rings and inclinometers measure and control positions and angles reliably and accurately. Thanks to their robust bearing structure, the sensors withstand also severe "knocks" in harsh and inaccurate installation conditions.

The high IP67 protection ensures tightness in case of intensive outdoor applications. Sensors with IP69k protection can also be steam-jet-cleaned with the machine.





Data / load transmission 2





Transmission of load, signal and fieldbus communication from the undercarriage to the rotary platform, additionally with media lead-through in air or hydraulic variant

Slip ring SR160

- · Robust: aluminum or stainless steel housing
- Transmission of up to 30 channels (load, data, signal, fieldbus or Ethernet)
- Max. load current 50 A
- · High protection level IP65, high-quality seals



Horizontal basket position 3





Dynamic measurement for the correction of the horizontal operator basket position, inclinometer with high IP protection level and stable measuring value throughout time and temperature

Inclinometer IN88

- · CANopen interface
- · High protection level IP69k
- 1-dimensional



Leg position 4



Linear measurement of the stroke up to 2 m, accurate speed and position with a compact size

Miniature draw-wire system A40 / A41

- · Analog output
- · Measuring length 2 m



Ladder elevation angle 6



For an outdoor use with humidity for absolute angle measurement with fieldbus control, robust encoder requiring little space

Sendix M36 encoders

- ø 36 mm size
- · CANopen interface
- · Magnetic scanning
- Safety-Lockplus™
- · High protection level IP69k
- · Status display

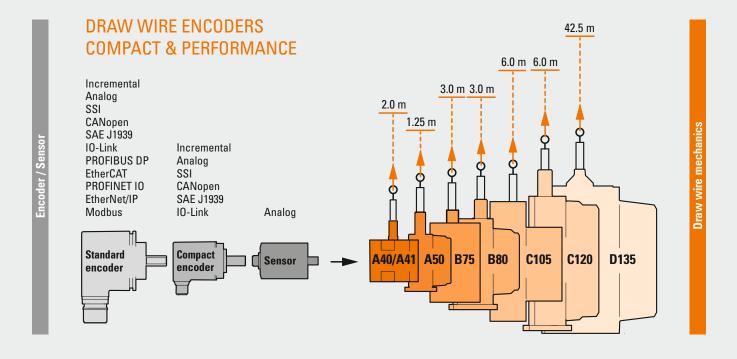


Automatic guided vehicles

Compact encoders and draw-wire systems of Kübler are used to determination the speed, the steering angle of the vehicles and the exact position of the load-carrying devices.

Their accurate rotary speed and position signals ensure the reliable operation of the intelligent systems - even when only very little space is available. BUS systems ensure the safe signal transmission and simplify notably the cabling work.





Lifting height measurement



Linear measurement up to 3 or 6 m, absolute value acquisition via fieldbus, high accuracy

Draw-wire encoder A41

- · Measuring length 2 m
- · CANopen interface
- · Robust housing
- · High dynamic up to 1 m/s



Draw-wire encoder B75

- Measuring length 3 m
- Fieldbus interface
- With optical multiturn encoder
- · Robust housing
- Linearity up to ± 0.35 % of the measuring range



Draw-wire encoder B80

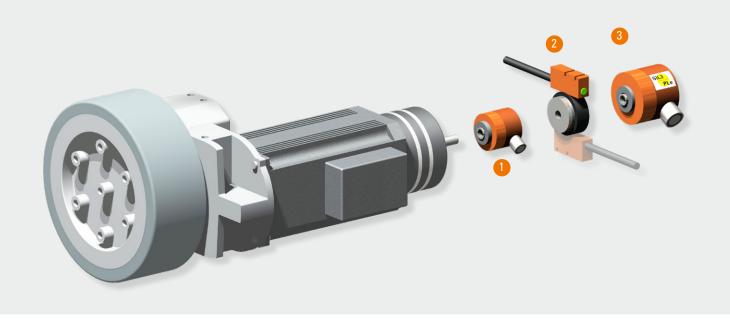
- Measuring length 3 m
- · Fieldbus interface
- · Interchangeable installation
- With optical multiturn encoder
- · Robust housing
- Linearity up to ±0.02 % of the measuring range



Draw-wire encoder C120

- Measuring length 6 m
- · Fieldbus interface
- · Interchangeable installation
- With optical multiturn encoder
- · Robust housing
- Linearity up to ± 0.02 % of the measuring range





Driving speed



Dynamic rotary speed measurement with reduced space requirements in hollow shaft version

Sendix S3674 Motor Feedback System 🕕



- Singleturn encoder ø 36 mm • SIL2/PLd
- Operating temperature
- -30°C ... +120°C
- Accurate optical scanning
- Tapered shaft ø 8 mm



Sendix Base KIH40 encoder 1



- · Incremental encoder ø 40 mm
- Optical scanning
- Safety Lock™
- · Resolution max. 2500 ppr



RLI20 bearingless encoder 2



- · Magnetic scanning
- Resolution max. 3600 ppr
- High protection level up to IP69k

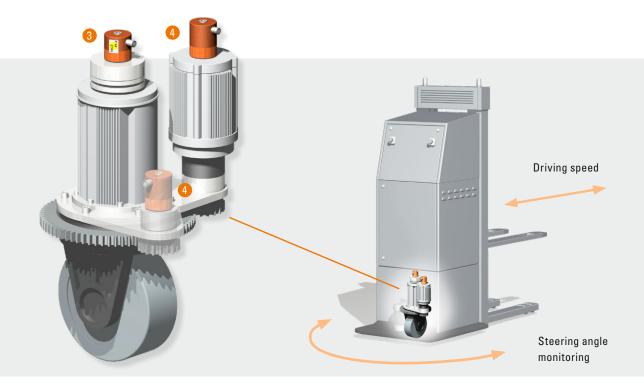


Sendix 5834FS encoder 3



- · Incremental encoder ø 58 mm
- · Accurate optical scanning
- SIL2/PLd, SIL3/PLe
- Resolution max. 2048 ppr





Steering angle monitoring



Absolute angle measurement with fieldbus control, robust encoder with reduced space requirements

Sendix M36 encoders 4



- ø 36 mm size
- · CANopen interface
- · Magnetic scanning
- Safety-Lockplus™
- · High protection level IP69k
- Status display







- · CANopen interface
- · Optical scanning



For safety applications – Sendix S58 PROFIsafe encoders



- Sturdy bearing construction in Safety-Lock™ Design for resistance against vibration and installation errors. · High resolution: Singleturn 15 bit (safe) or 24 bit (non safe).
- Multiturn 12 bit (safe).
- SIL3, Performance Level Ple, Safety Category Cat. 3.
- Fully redundant multiturn information due to redundant multiturn
- Transmission via safety telegrams 36/37, according to BP and XP.
- · Implement features and adaptations quickly and easily.
- · Cyber Security update in preparation / High system availability, protection against misuse (acc. IEC 62443).



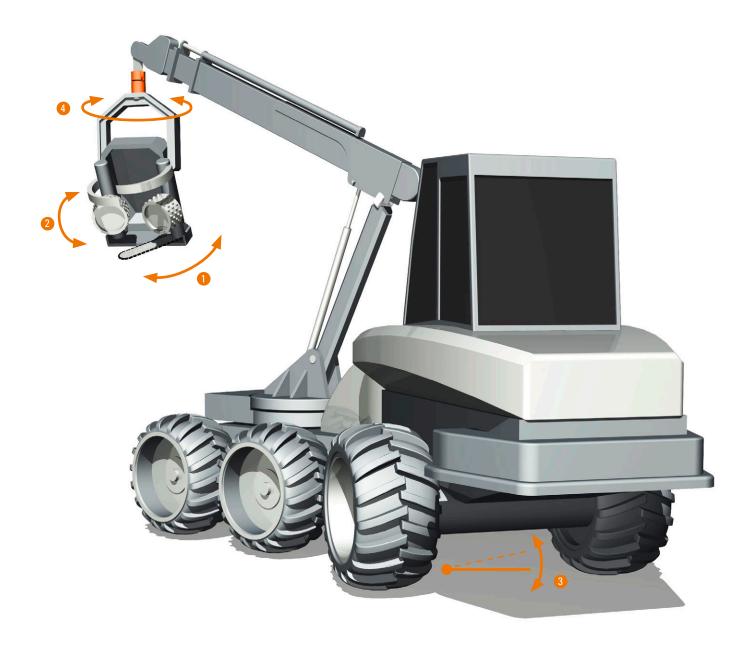




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Agricultural and forestry machinery

The Kübler encoders and inclinometers can cope with the demanding requirements of the agricultural and forestry branch. They ensure a safe and accurate operation of the machines. Inclinometers monitor the horizontal position of the vehicle and warn in case of an excessive inclination. Encoders measure the setting angle and the speed and feed of the work equipment. Compact miniature encoders can be integrated in an existing device, if the customer wishes so, and make the big difference thanks to their intelligent extra features.



Saw blade setting angle 1



For an outdoor use with humidity, absolute angle measurement with fieldbus control, robust encoder requiring little space

Sendix M36 encoders

- ø 36 mm size
- · SAE J1939 interface
- Magnetic scanning
- Safety-Lockplus™
- · High protection level IP69k
- · Status display



Feedrate and position 2





Trunk length measurement at the feed wheel, dynamic rotational speed measurement requiring little space

Sendix 5000 encoder

- · Incremental encoder ø 50 mm
- Safety-Lock™
- · Operating temperature -40°C ... +85°C
- · High shaft load: 50 N axial and 100 N radial



Vehicle balance control 3





Dynamic balance display via an analog value with high protection against humidity

Inclinometer IN81

- · Analog output
- · SAE J1939 interface
- · High protection level IP69k
- 1-dimensional



Endless rotating harvester head 4





Transmission of load, data and signals from the boom to the endless rotating harvester head

Slip ring SR075

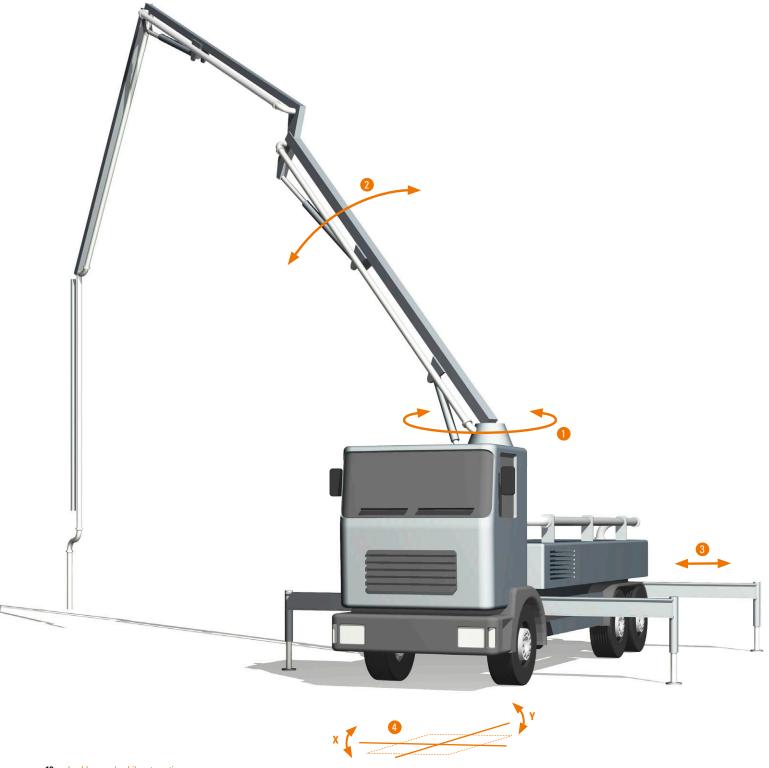
- Individual slip ring solution
- · Compact and robust
- · Transmission of load, data and signals



Construction machinery / Concrete pumps

BUS systems are a standard in passenger cars for years. They are now increasingly used also in mobile machines.

Rough positioning using analog values is replaced with accurate angular sensors with CAN bus. Encoders and draw-wire systems mounted in construction machines cope with the most demanding requirements, both on the work site and underground.



Angle of rotation of the concrete distribution mast 10









Outdoor use with humidity and dirt, high positioning accuracy, fieldbus control



Dynamic measurement of the elevation angle of the mast, inclinometer with high IP protection level and stable measuring value throughout time and temperature

Sendix M3668R encoder

- · CANopen multiturn
- Safety-Lockplus™
- · High protection level IP69k
- · Status display + reset button
- Measuring pinion on the encoder shaft



Inclinometer IN88

- · CANopen interface
- · High protection level IP69k
- 1-dimensional



Leg position 3





Position measurement of the telescopic leg, linear measurement of the stroke up to 5 m, speed and position control via BUS

Vehicle balance control





Dynamic and exact balance display via CANopen, high protection against humidity and dirt

Draw-wire encoder C100

- · CANopen interface
- High protection level IP67
- Redundant sensors
- Measuring length 1 m ... 5 m
- · Easy mounting
- · Operating temperature
- -40°C ... +85°C



Inclinometer IN88

- · CANopen interface
- · High protection level IP69k
- · 2-dimensional

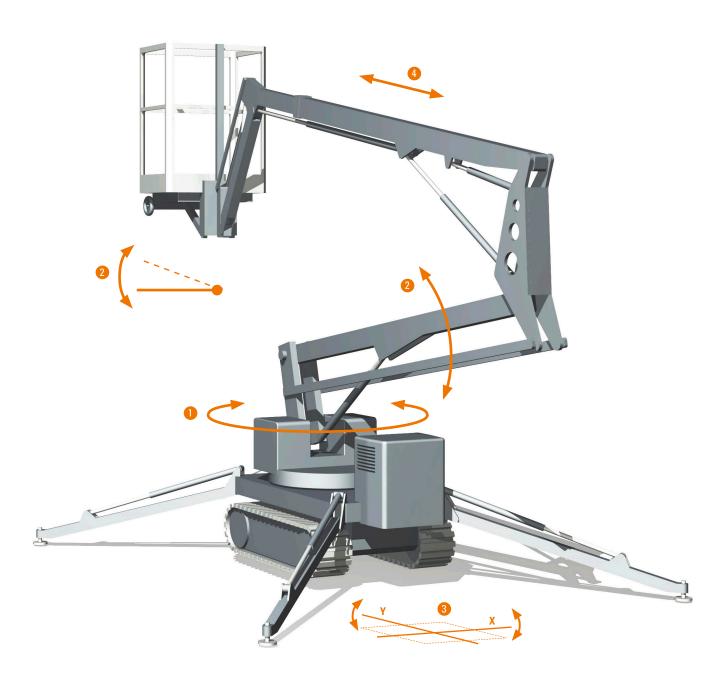


Working platforms

Flexibility, speed and safety are the main features of working platforms.

The requirements for fast installation and access, as well as absolute stability whatever the inclination or the nature of the ground call for tailor-made sensors both for monitoring and automation purposes.

Only highest safety standards can be sufficient were people are at work. Kübler sensors monitor the position of the operator basket and the levelling of the chassis – both for self-propelled and for trailer or truck-mounted working platforms.



Angle of rotation of the mast 1





Outdoor use with humidity and dirt, high positioning accuracy, fieldbus control

Sendix M3661 encoder

- Analog multiturn encoder
- Safety-Lock™
- · High protection level IP67
- · Status display + reset button
- Measuring pinion on the encoder shaft



Mast elevation angle 2





Dynamic measurement of the elevation angle of the mast, inclinometer with high IP protection level and stable measuring value throughout time and temperature

Inclinometer IN81

- · Analog output
- · High protection level IP69k
- 1-dimensional



Chassis balance control 3





Inclinometer IN81

- · Analog output
- · High protection level IP69k
- · 2-dimensional



Telescopic mast length 4





Linear measurement of the stroke up to 2 m, accurate speed and position with a compact construction

Miniature draw-wire encoder A40 / A41

- · Analog output
- · Measuring length 2 m



Mobile cranes

Mobile cranes are used whenever heavy loads must be handled – on public roads or on difficult terrain. High reliability and safety are the requirements for mobile boom cranes. Sensors play a major role here. Kübler offers the suitable solution for any imaginable task based on robustness, premium quality and long service life. Our encoders, draw-wire systems and inclinometers measure reliably every movement and ensure the faultless operation of your mobile cranes. Take advantage of countless ordering options and of the wide range of suitable interfaces, from analog up to CANopen.



Turret rotation 1



Outdoor use with dirt, high positioning accuracy, fieldbus control

Sendix M5868 encoders

- Magnetic scanning
- · Electronic, multiturn gearless encoder
- · CANopen interface



Boom elevation + vehicle levelling 2 + 3





Dynamic and accurate measurement of the vehicle leveling and of the mast elevation angle via BUS interface

Inclinometer IN88

- · CANopen interface
- · High protection level IP69k
- 2-dimensional



Outriggers 4



Position measurement of the telescopic outriggers, linear measurement up to 5 m, speed and position control via **BUS** interface

Draw-wire encoder A41 / C100

- A41 compact size with **CANopen** interface
- · C100 redundant sensors with integrated inclinometer



Boom length and elevation 5 + 2





Dynamic and accurate measurement of the mast elevation angle and extension length in one device



Draw-wire encoder D125

- · Redundant sensors
- · Integrated inclinometer
- · Measuring length up to 10 m



Encoders

Encoders are used everywhere lengths, positions, rotary speeds and angles are to be measured. They convert mechanical movements into electrical signals.

Incremental encoders deliver signal periods whose number can be a measure for the rotary speed, the length or the position. In absolute encoders, a unique code pattern is assigned to every position. Even after power failure, the current position is immediately available after re-powering.

Absolute singleturn / multiturn encoders







Fieldbus hood

	Sendix M36	Sendix M36R	Sendix F5868 / F5888	Sendix 5868 / 5888
Characteristics	Compact and robust angle sensor EHT multiturn technology without battery and without gear	Compact and robust multiturn encoder EHT multiturn technology without battery and without gear	Multiturn encoders acc. to industry standard Through hollow shaft available Accurate optical scanning and interference-free electronic IST multiturn technology	 Multiturn encoders acc. to industry standard Variable connection technology Accurate optical scanning Interference-free multiturn gear
Size	ø 36 mm	ø 36 mm	ø 58 mm	ø 58 mm
Measuring principle	Magnetic, absolute	Magnetic, absolute	Optical, absolute	Optical, absolute
Electrical	Analog	Analog	CANopen	CANopen
interface	SSI	SSI	EtherNet/IP	PROFIBUS DP
	CANopen	CANopen	PROFINET IO	PROFINET IO
	SAE J1939	SAE J1939		EtherCAT
Resolution max.	14 bit singleturn	13 bit singleturn (max. 14 bit)	13 bit singleturn (max. 16 bit)	13 bit singleturn (max. 16 bit)
		12 bit multiturn (max. 24 bit)	12 bit multiturn (max. 16 bit)	12 bit multiturn
Protection level	IP67, IP69k	IP67, IP69k	IP65, IP67	IP65, IP67
Type of connection	Cable	Cable	Cable	Cable
	M12 connector	M12 connector	M12 connector	M12 connector
				M23 connector

Incremental encoders









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2400 / 2420

- High-resolution miniature encoder
- Ideal for use in restricted spaces or for integration in gear limit switches

Sendix 5000 / 5020

 Robust and versatile incremental encoder

RI50 / Limes LI50

- Bearingless and extremely slim incremental encoder
- Rings flexibly adaptable to the shaft diameter

RLI Performance

- Smart bearingless encoders
- Freely adjustable line count with reference signal(s)
- Status LED, Status output
- Optional integrated vibration sensor (possibility for condition monitoring and predictive maintenance)

				 Integrated digital signal filters and electronic type label with user memory
Size	ø 24 mm	ø 50 mm	16 mm mounting depth	Sensor head 100 x 60 x 25 mm
Measuring principle	Optical, incremental	Optical, incremental	Magnetic, incremental	Magnetic ring
Electrical interface	Push-pull	RS422 Push-pull Open collector	RS422 Push-pull	RS422 Push-pull SSI, BiSS Analog
Resolution max.	1.024 ppr	5.000 ppr	3.600 ppr	Resolution freely programmable (in the factory or by the customer)
Protection level	IP50, IP64 (housing IP65)	IP65, IP67	IP67, IP68/IP69k	IP67
Type of connection	Cable	Cable M12 connector M23 connector MIL connector	Cable	M12 connector

Inclinometers

Inclinometers are used to measure deviations with respect to a horizontal rotation axis over an angular range that can reach 360°. Kübler inclinometers are based on the MEMS technology (Micro-Electro-Mechanical System).





	IN81	IN88
Characteristics	 Robust housing Flexibly adjustable to the application Optional additional adjustable limit switches With 1 x M12 connector and practical teach adapter 	 Robust housing Flexibly adjustable to the application Optional additional adjustable limit switches 2 x M12 connectors for easy BUS-in/BUS-out wiring
Measuring ranges	1-dimensional 0 360° 2-dimensional ±10°, ±45°, ±60°	1-dimensional 0 360° 2-dimensional max. ±85°
Electrical interface	4 20 mA 0.1 4.9 V 0.5 4.5 V 0 5 V 0 10 V Optional switching outputs	CANopen Optional limit switch SAE J1939
Setting	Zero point setting Measuring range setting Filter matching	Zero point setting Measuring range setting Filter matching via CANopen
Accuracy	±0.1°	±0.1°

Slip rings

When it comes to transmitting electrical signals, energy, gases or liquid media from a static to a rotating component, Kübler slip rings offer the optimal solution. High current carrying capacity, reliable signal and data transmission with high transmission rates, combined with long service life and easy handling are some of the main requirements met by Kübler slip rings.

Kübler slip rings are the result of highest quality awareness and a careful selection of materials — made in Germany. We focus on your application: we realize modifications and special solutions quickly and simply.









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SR075

Compact and robust

is ideal for Mobile Automation applications.
Optimal combination of fieldbus communication with load transmission in the on-board network area.

This compact and robust design

SR120

Flexible and fast

The slip ring SR120 is ideal for applications requiring high transmission rates. Its specially developed shield concept allows parallel transmission of load currents up to 25 A and of data up to 100 Mbit/s.

SR160

Powerful and flexible

The modular construction and variable connection possibilities allow obtaining a customized product. Load currents up to 50 A combinable with signal, fieldbus and Ethernet transmission. The innovative contact technology ensures a long, low-maintenance and reliable operation.

SR250H

High-current transmission

The SR250H transmits simultaneously currents up to 120 A, signals and fieldbus or Ethernet data. Its robust construction and a wide variety of connection possibilities allow adapting it individually to the application. It convinces with its high reliability.

			reliable operation.	with its high renability.
Size	75 x 85 mm	ø 120 mm	ø 160 mm	ø 250 mm
Protection	IP64 (IP65 on request)	Max. IP65	Max. IP65	Max. IP65
Transmission paths	2 load channels 6 signal channels Fieldbus transmission	Up to 20 load and signal channels Fieldbus transmission Ethernet transmission	Load and signal channels Fieldbus transmission Ethernet transmission	Load and signal channels Fieldbus transmission Ethernet transmission
Contact materials	Gold/Gold	Copper/Brass Silver/Precious metal	Copper/Brass Silver/Precious metal Gold/Gold Silver/Silver	Copper/Brass Silver/Precious metal Silver/Silver
Load current	0 20 A 0 48 V	0 25 A 0 400 V	0 50 A 0 400 V	0 120 A 0 480 V

Draw-wire encoders

The core of a draw-wire device is a drum mounted on bearings, onto which a wire is wound. Winding takes place via a spring-loaded device. An encoder measures the number of revolutions. If the circumference of the drum is known, length can be calculated.









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Draw-wire encoder C100

Mobile-Robust and cost-effective

- 0.9 mm thick measuring wire
- · Protection level IP67
- · Temperature range -40°C ... +85°C
- · All interfaces, also redundant with double sensor electronics
- · Optionally with integrated inclinometer for measuring the mast elevation angle

Draw-wire encoder D125

Mobile-Robust and cost-effective

- 0.8 mm thick measuring wire · Sensor with protection level
- IP67 · All interfaces, also redundant
- with double sensor electronics
- · Optionally with integrated inclinometer for measuring the mast elevation angle

Draw-wire enc. A40 / A41

Compact and cost-effective

- · Most compact draw-wire encoder with 2 m measuring length
- Optional as low-temperature version

Draw-wire encoder B75

- · Compact construction
- · Flexible mounting

Measuring lengths

1 m ... 5 m Analog sensor Incremental output

108 x 98 x 68.4 mm

CANopen Relay output Switch output

CANopen

(also with redundant outputs) Analog 12 bit $\leq 0.3 \text{ mm}$

Analog approx. $\pm 0.8~\%$ CANopen approx. ±0.5 % approx. 124 x 124 x 94 mm

6 m ... 10 m

Analog sensor CANopen Inclinometer (also with redundant outputs)

Analog 12 bit CANopen $\leq 0.6 \text{ mm}$ Analog approx. $\pm 0.8~\%$ CANopen approx. ±0.5 % approx. 50 x 50 x 77 mm

1 m, 2 m

Analog sensor

CANopen

0.2 mm

Approx. ±0.35 %

Compact and cost-effective

- · Wear-free wire exit

78 x 78 x 55 mm

3 m

Analogsensor CANopen **SAE J1939** PROFIBUS DP PROFINET 10

0.2 mm

Approx. $\pm 0.35~\%$



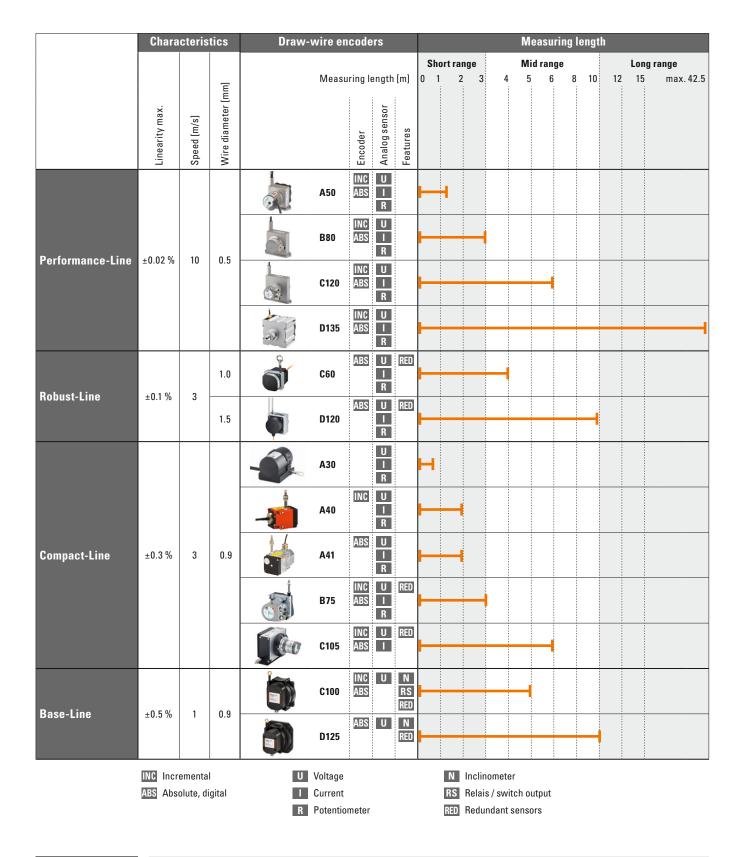






	Draw-wire encoder C60	Draw-wire encoder D120	Draw-wire encoder C120	Draw-wire encoder D135	
Characteristics	Robust and versatile	Extremely robust and dynamic	Highly accurate and dynamic	Highly accurate and dynamic	
	Protection level up to IP69k Wide temperature range -40°C +85°C Titanium-anodized aluminum housing Various constructions: open, closed housing or housing with perforated sheet steel cover Stable measuring wire (stainless steel, V4A) wire diameter up to ø 1 mm - ideal for outdoor applications	Draw-wire encoder for outdoor Sensor with protection level IP69k and temperature level -40°C +85°C Stable measuring wire (stainless steel, V4A), wire diameter up to 1.5 mm All interfaces, also redundant with double sensor electronics	 Excellent linearity up to ± 0.02% of the measuring range Robust housing High dynamics up to 10 m/s Customer-specific adaptations possible 	Measuring lengths up to 42.5 m Can be combined with Kübler Sendix encoders and with analog sensors	
Size	60 x 60 x 125 mm	approx. 120 x 125 x 133 mm	approx. 120 x 120 x 120 mm	135 x 135 x 318 mm	
Measuring lengths	4 m	3 m 10 m	6 m	8 m, 10 m, 12 m, 15 m, 20 m, 25 m, 30 m, 35 m, 40 m, 42.5 m	
Electrical	Analog sensor	Analog sensor	Analogsensor	Analogsensor	
interface	CANopen	CANopen	CANopen	CANopen	
	(also with redundant outputs)	Potentiometer	SAE J1939	SAE J1939	
		(also with redundant outputs)	PROFIBUS DP	PROFIBUS DP	
			PROFINET IO Incremental Push-pull/RS422	PROFINET IO Incremental Push-pull/RS422	
Resolution	Depending on the encoder	Analog 16 bit	0.08 mm	0.08 mm	
Accuracy / Linearity	Approx. ±0.1 %	Approx. ±0.1 %	Analog approx. ±0.1 % CANopen approx. ±0.05 %	Analog approx. ±0.1 % CANopen approx. ±0.05 %	

Portfolio overview draw-wire encoders



kuebler.com/draw-wire_encoders

Counters and process devices

The main task of the Kübler counters is the direct or scaled display of electronic pulses - in variants with or without switching outputs, with analog output and electronic or electromechanical display. Process devices are used for displaying, monitoring and scaling standard signals, temperature or strain gauge signals in any desired unit. All functions also with modular, 3-colour touch display.











	HR47, HK07, Codix 13x	HW66M	K07.20, Codix 92x, 57xT	Codix 534, Codix 565
Characteristics	Hour meters for operating time measurement, service intervals, short time measurement	Energy and hour meter	Position acquisition, quantity and piece counting, length counter, rotary speed measurement	Flow measurement, pressure measurement, filling level display, weight monitoring, speed display, temperature monitoring
Applications	Pumps, vibrators, generators, compressors, small machinery, rollers, power sets, lighting	Dehumidifiers, generators and power sets	Fork lifts, cranes, armoring machines, pumps, disconnecting devices, saws	Compressors, pumps, motors, weighing devices, tank installations
Power supply	Battery, DC or AC	115 or 230 V AC	Battery, DC or AC	DC or AC
Protection level	IP65	IP65	IP65	IP65
Size [mm]	ø 58, 30 x 20, 48 x 24	48 x 48	30 x 20, 48 x 48, 96 x 48	48 x 24, 96 x 48
Measuring input	Time ranges: sec, min, h with resolution up to 1 ms	kWh and operating time measurement	Various counting and frequency modes up to max. 1 MHz	Scalable standard signal or strain gauge inputs, temperature inputs
Features	High vibration and shock resistance Wide temperature range	High vibration and shock resistance Wide temperature range	High vibration and shock resistance Wide temperature range Switching and analog outputs	High vibration and shock resistance Wide temperature range Switching and analog outputs

Product portfolio – Made in Germany



MEASUREMENT

Rotary speed and position detection, linear position, and speed measurement as well as inclination angle detection.

- Encoders
- · Bearingless encoders
- Motor Feedback Systems
- Linear measuring systems
- · Shaft copying systems
- Inclinometers

TRANSMISSION

Reliable and interference-free transmission of power, signals, and data. Communication between control system and sensors.

- Slip rings
- Slip rings, customized solutions
- Signal converters and optical fiber modules
- · Cables and connectors

EVALUATION

Recording of quantities, counting of units of any kind, and reliable speed and position recording for functional safety.

- · Displays and counters
- Process devices
- Safe speed monitors up to SIL3/PLe

We offer solutions for the following industries:





ELEVATOR TECHNOLOGY



MOBILE AUTOMATION



HEAVY INDUSTRY





SOLAR INDUSTRY



PACKAGING INDUSTRY



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:

kuebler.com/industries

Kübler Service for worldwide planning reliability

24**one**

24one delivery promise

Manufacturing in 24 hours. For orders placed on working days before 9 AM, the product will be ready for dispatch on that same day. 24one is limited to 20 pieces per delivery.



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.)



48 h Express-Service

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



Sample Service

We manufacture samples of special designs or according to customer specification within shortest time.



Safety Services

Individual customer solutions.



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.



Technical Support

Kübler' applications team is present on site all over the world for advice, analysis and support.

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