



## Bearingless encoders

### Reliable speed measuring with magnetic sensor solution.

Bearingless encoders are the perfect alternative to bearing mounted encoders, due to their compact design and easy mounting options on almost any shaft diameter. Bearingless encoders from Kübler are already used today in drive and elevator technology, for asynchronous motors or external rotor motors, or in generators, large motors, and wind turbines. Our smart technology is available for the highest signal quality. Digital real-time signal processing compensates for possible signal errors and optimizes drive control. Design your plants, machines, or motors with Kübler!

[kuebler.com/bearingless\\_encoders](http://kuebler.com/bearingless_encoders)

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Cables, connectors and pre-assembled cordsets



Position displays



Magnetic rings in different diameters

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## Bearingless encoders Incremental

		Hollow shaft max. in mm ["]	Magnetic (accuracy ±1°)	With zero pulse	Resolution max. in ppr	Push-pull RS422	Speed max. in min <sup>-1</sup>	Temperature range in °C [°F]	Protection max.	Type of connection	Power supply in V DC	Pulse frequency max. [kHz]	RoHS compliant
	Standard, magnetic <b>RLI20</b> (hollow shaft)	30 [1.18]	•	–	3.600	• •	12.000	-20 ... +80 [-4°F ... +176°F]	IP69k	cable	4.8 ... 26 4.8 ... 30	250	•
	Standard, magnetic zero pulse <b>RLI50</b> (hollow shaft)	35 [1.38]	•	•	3.600	• •	12.000	-20 ... +80 [-4°F ... +176°F]	IP69k	cable	4.8 ... 26 4.8 ... 30	250	•
	Large hollow shaft, magnetic <b>RLI200</b> (hollow shaft)	390 [15.35]	•	–	16.000	• •	12.000	-20 ... +80 [-4°F ... +176°F]	IP69k	cable	4.8 ... 26 4.8 ... 30	250	•
	Large hollow shaft, magnetic zero pulse <b>RLI500</b> (hollow shaft)	350 [13.78]	•	•	6.400	• •	12.000	-20 ... +80 [-4°F ... +176°F]	IP69k	cable	4.8 ... 26 4.8 ... 30	250	•

## Bearingless encoders Absolute

		Hollow shaft max. in mm ["]	Magnetic (accuracy ±1°)	With zero pulse	Resolution max. in ppr	SSI CANopen	Speed max. in min <sup>-1</sup>	Temperature range in °C [°F]	Protection max.	Type of connection	Power supply in V DC	Pulse frequency max. [kHz]	RoHS compliant
	Standard, magnetic singleturn, <b>RLA50</b> (hollow shaft)	30 [1.18]	•	–	16.000	• •	1.000	-10 ... +70 [+14 ... +158]	IP40	M12	10 ... 30	–	•