



Shaft Copying System

LEB / LES, measuring length up to 392 m

Absolute position measurement.

Kübler's new shaft copying system offers numerous advantages. So, for example, the absolute position measurement allows doing without elevator referencing after a power failure. Besides a more accurate elevator car positioning, it also allows operation without additional components such as magnetic sensors.

This means extreme reduction in costs, as well as in installation and maintenance time.

The contactless measuring principle stands first of all for robustness, highest reliability and long service life. Nevertheless, it must also show maximum compactness.

For retrofitting / modernization as well as for new plants, the shaft copying system can be used even in tightest installation spaces.

Fast and simple assembly moreover saves time and costs.

Development cooperation Kübler and Variotech

Kübler developed this innovative solution for absolute shaft copying jointly with Variotech.

This Austrian specialist for elevator electronics is fully aware of all safety technology requirements of the elevator industry. Variotech now contributes this experience within the framework of a development cooperation with Kübler, to make the safest means of transport of the world – the elevator – even more modern and safe.



Variant	LEB (Base)	LES (Safe)	
General information	Extremely compact measuring system for shaft copying	Extremely compact measuring system for shaft copying, SIL3 certified	Evaluation unit The combination of LES with a suitable evaluation unit allows purchasing a SIL3 certified complete system from Kübler. This solution allows realizing numerous elevator and safety functions. These are for example: <ul style="list-style-type: none"> · Top/bottom limit switches · UCM · Safety gear tripping · Inspection limitation thanks to shortened shaft head / shaft pit · etc.
Measuring range	Up to 392 m	Up to 392 m	
Electrical interface	CAN, CANopen, CANopenLift, SSI, RS485	CAN, RS485	
Resolution	1 mm	1 mm	
Traverse speed	Up to 5 m/s (10 m/s on request)	Up to 5 m/s (10 m/s on request)	
Temperature range	-5 ... +70°C	-5 ... +70°C	
Power supply	10 ... 30 V DC	10 ... 30 V DC	

