COMPACT AND SAFE FOR OVER 20 YEARS



LIMAX

BY ELGO BATSCALE

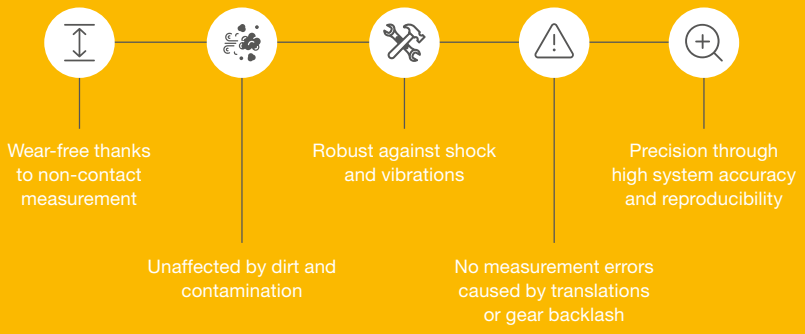
INNOVATION WITH HISTORY

As early as 1998, the company brought its first self-developed magnetic length measuring system to series production in the elevator industry. The big breakthrough came in 2004 with the introduction of the LIMAX® series – a shaft information system based on magnetic tape technology that detects the position of the elevator car **contactlessly, precisely, and absolutely reliably.**

Today, ELGO Batscale has become an indispensable part of the elevator industry: millions of elevators worldwide are equipped with LIMAX® shaft information systems from Balzers – in high-rise buildings, office complexes, clinics, residential buildings, and many other critical infrastructures. Every year, tens of millions of meters of magnetic tape leave the factory for international markets.

At the heart of this global success are the unique advantages of magnetic measurement technology.

ADVANTAGES OF MAGNETIC MEASUREMENT TECHNOLOGY



LIMAX

THE ♥ OF ELEVATOR SAFETY

LIMAX® stands for safety, reliability, precision, and sustainability.

While mechanical systems are by nature maintenance-intensive, prone to failure, and short-lived, ELGO offers a genuine alternative – with decisive advantages:

- **Certified safety:** The LIMAX® series meets the highest safety standards up to SIL3.
- **Compact:** LIMAX® is the perfect space-saving and safe solution thanks to the elimination of conventional mechanical components.
- **Robustness:** Unaffected by dust, moisture, humidity, temperature fluctuations, and smoke. Proven in practice over decades and used millions of times worldwide.
- **Non-contact measurement:** No mechanical wear, significantly longer service life compared to conventional mechanical systems.
- **Absolute position measurement:** Even after a power failure, the high-precision cabin position is still available.

COMPACT

Absolute position detection and safety monitoring combined in one housing

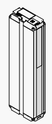
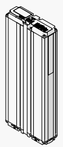
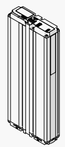
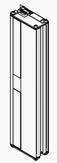
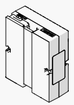
RED

Absolute position detection and safety monitoring in combination with a safe elevator control system or evaluation unit SAFEBOX

STANDARD

Absolute position detection

Pseudo-absolute position detection

	NEW GENERATION LIMAX1CP	NEW GENERATION LIMAX2CP	NEW GENERATION LIMAX3CP	NEW GENERATION LIMAX1R	NEW GENERATION LIMAX2R	LIMAX4R	LIMAX2M	LIMAX1M
								
Safety Functions								
Car Position and Final Limits	✓	✓	✓					
Inspection Limit	✓	✓	✓					
Short Head/Pit		✓	✓					
UCM | Unintended Car Movement	✓	✓	✓					
ETSL | Deceleration Control	✓	✓	✓					
Overspeed Monitoring	✓	✓	✓					
Safety Gear Activation		✓	✓					
Door Leveling and Pre-opening	✓	✓	✓					
Customer specified functions			✓					
Key Data								
SIL 3 Safety Level	●●●●	●●●●●	●●●●●	●●●	●●●●●	●●	–	–
Machinery Regulation (EU) 2023/1230 Conformity	✓	✓	✓	✓	✓			
ASME Conformity	✓	✓	✓	✓	✓			
FIT Value	33.2	16 (provisional)	16 (provisional)	30.3	2	1108	–	–
Lift heights (m) up to	262	262	262	262	262	786	262	262
Speed (m/s) up to	10	10	10	10	10	16	10	4
IP protection	up to 54	up to 67	up to 67	up to 54	up to 67	54	up to 67	43
Connection	RJ45	connector	connector	RJ45	connector	M12M	RJ45 / M12	USB / RJ45
Interfaces	CANopen 406/417	CANopen 406/417	CANopen 406/417	RS485	RS485	RS485	CANopen 406/417 RS485 / SSI	CANopen 406/417 RS485 / SSI
Energy consumption max. (without DZO)	2.4 W	2.4 W	2.4 W	1.5 W	2.4 W	4.8 W	4.8 W	3.6 W
Safety Circuit / Voltages 48 / 110 / 230 VAC	✓	✓	✓					
Safety Circuit / Voltage 48 VDC	✓	✓	✓					
Dimensions in mm	256 × 75 × 37.5	300 × 120 × 40	300 × 120 × 40	256 × 75 × 37,5	300 × 120 × 40	524 × 81 × 55	247 × 54 × 27	75 × 64 × 30

www.elgo.li

Visit website:
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INNOVATIVE SOLUTIONS
FOR ELEVATORS

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