

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.

[www.elgo.li](http://www.elgo.li)

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.

This not only means increased safety, but also much faster commissioning, lower maintenance costs, and overall more efficient and, above all, cost-optimized building management thanks to the compact design.

Safety Functions

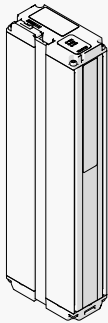
SIL 3 Safety Level
FIT Value
Measuring height up to 262 m
Operation speed up to 10 m/s
IP protection
Connection
Interfaces
Final limits
UCM (Unintended car movement)
Door leveling
Door pre-opening
Floor level indication
Overspeed pre-tripping
ETSL (Deceleration control)
Floor sensor (optional)
eSGC (Electronic safety gear activation)
Short head /pit
Inspection limits
Customer specified functions

\* Value to be confirmed

COMPACT

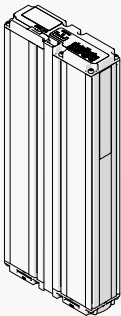
Absolute position detection and safety monitoring combined in one housing

LIMAX1CP



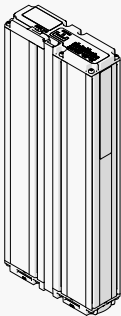
LIMAX2CP

NEW GENERATION

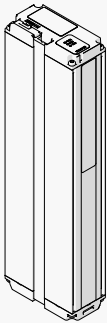


LIMAX3CP

NEW GENERATION

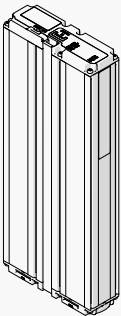


LIMAX1R



LIMAX2R

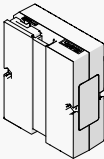
NEW GENERATION



LIMAX2M



LIMAX1M





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# INNOVATIVE SOLUTIONS FOR ELEVATORS

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