



City with PESSRAL

The Next Evolution
of the CITY Series



City with PESSRAL

KLEEMANN introduces a new level of flexibility and efficiency with the upcoming integration of EN81-21 compliance, exclusively available with the intelligent PESSRAL control system in the new City.

Designed for both new installations and modernization projects, the new solution combines advanced digital safety technology with optimized installation performance, delivering a smarter way to create elevators without compromising safety, reliability, or comfort.

Intelligent Safety with PESSRAL

Engineered for Safety, Reliability, and Smarter Performance

PESSRAL (Programmable Electronic System in Safety-Related Applications for Lifts) replaces traditional electro-mechanical safety components with a robust digital architecture that integrates:

SIL3 Certified Safety

Complying with SIL3, the highest safety standard in the industry, PESSRAL delivers uncompromising protection and superior reliability through:

- Built-in fail-safe redundancy
- Continuous monitoring of safety functions
- Proactive detection of potential issues
- Intelligent responses that maximize uptime and reliability

- Absolute positioning technology
- Integrated sensors
- Advanced programmable logic
- In-shaft safety devices in a single intelligent module

The result is a simplified system that reduces complexity, improves diagnostics, and minimizes installation time.

- Real-time insights into elevator performance and condition

By consolidating multiple safety functions into a single programmable electronic platform, PESSRAL provides far richer diagnostic data than traditional hardwired safety circuits, giving installers greater visibility and access to more comprehensive troubleshooting information.

Why Choose EN81-21 with PESSRAL*?



More Flexibility for Challenging Buildings

With a minimum pit depth of 550 mm and headroom of 2600 mm, CITY enables reduced shaft dimensions, making both new installations and modernization projects easier, even in buildings with architectural limitations.

Faster Installation

The integration of digital safety functions minimizes the need for conventional safety components, reducing installation time by up to one day.

Lower Overall Cost

Optimized design and reduced construction constraints contribute to lower installation and maintenance costs.

Automatic Safety Activation

Safety functions can be activated before technicians enter the shaft, ensuring enhanced protection from the very beginning of the installation process.

Higher Speed, Same Shaft

Achieve speeds up to 1.6 m/s while using the same standard shaft dimensions typically required for a conventional 1.0 m/s lift with EN81-21.

	EN 81.21		EN 81.20	
	Q≤675 kg	675<Q≤1050 kg	Q≤675 kg	675<Q≤1050 kg
Max Speed (m/s)	1 & 1,6			
Min Pit Depth (mm)	550	~590	900	900
Min Headroom (mm)	2600		3300	
Max Travel (m)	45			
Max Number of Stops	17			

*For orders, please contact your sales representative

KLEEMANN has a worldwide presence in over 100 countries with local presence in key market points. Constantly monitoring the global market trends, the company continues to innovate, grow, develop, and improve while consistently remaining in tune with its global character.



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