



cegard/Smart

Smart lift door safeguarding technology

As expert in door safeguarding solutions, CEDES is continuously improving its portfolio in sensing, safety and control. Today, CEDES launches the next generation of lift door safeguarding technology called [cegard/Smart](#). This IoT-enabling smart light curtain is combined with [SKYLER Elevate](#), an IoT service powered by relayr, to provide a complete IoT solution. Thanks to this new feature, CEDES offers a best-in-class dynamically mounted light curtain that has never been easier to connect.

[cegard/Smart](#) enables conventional door safeguarding with native connectivity and technology excellence.

BENEFITS

► FOR INDEPENDENT SERVICE PROVIDERS

KEEP CONTINUOUS WATCH OVER YOUR ELEVATORS

Watch the elevator when no one is watching, discover anomalies immediately with automated reports .

CONSOLIDATE YOUR ELEVATOR PORTFOLIO

Understand the health of your elevator portfolio in a single view.
Remote condition monitoring on any elevator regardless of brand, age or type.

SINGLE SOURCE OF TRUTH

Same information for everyone: Elevator Manufacturers, Service Providers, FMs, Tenants, Passengers.
Reduce the amount of negotiation on invoices by identifying problems root cause.

IMPROVE OPERATIONAL EFFICIENCY

Reduce the costs by reducing call backs, "running on arrival", door trouble-shooting and more

ENSURE GOOD TENANT EXPERIENCE

Don't wait for your tenants to report a bad experience, address elevator issues as soon as they occur

BETTER UNDERSTAND YOUR TENANTS

Get insight into how your elevators are being used with traffic patterns, mileage, and number of trips.
Advice your customer on possible modernization and optimization

► FOR TECHNICIANS

PREDICT THE CONDITION OF THE ELEVATOR

Deep door performance analysis, where most callbacks occur (60-80%)
Early detection of anomalies
Prevent breakdowns and emergency repair
Reduce the number of callbacks
Make unplanned service visit plannable

HIGHER ELEVATOR AVAILABILITY

Fewer faults
Faster repairs, improve first time fix rate



EASY DATA VISUALIZATION

Mobile and computer dashboards





Dynamic application - criss-cross beams
active up to complete door closure

CONVENTIONAL DOOR SAFEGUARDING

- ▶ Helps prevent injuries of persons and damage to objects, as well as the elevator doors
- ▶ Criss-cross beams for a reliable detection
- ▶ Criss-cross beams remain fully active until the door is closed
- ▶ For dynamic applications only



cegard/Smart light curtain

- ▶ IoT-enabling smart light curtain, dynamically mounted (incl. mounting material)
- ▶ Elevator door safeguarding and door sensors
- ▶ 3-axis accelerometer data for both Rx and Tx
- ▶ Single beam information for every element
- ▶ Compliant to codes and standards
 - ▶ Meets the requirements of ASME A17.1-2016 / CSA B44-16 and earlier, ASME A17.5-2019 / CSA B44.1:19 and EN 81-20:2020 standards



cegard/Smart control unit

- ▶ Integrated interface to cloud via 4G
- ▶ Connectivity / IoT service
- ▶ Humidity data of the shaft
- ▶ Temperature of the shaft
- ▶ 3-axis accelerometer data of the elevator cab
- ▶ Remote monitoring solutions for elevators based on Microsoft Azure Services

Thanks to its unique feature combination, our technology is strategically designed to improve efficiency:

EMBEDED IN LIGHT CURTAIN, NON-INTRUSIVE

Easy and quick installation
No special tools, skills: any elevator technician can install it
Conventional elevator devices that can be billed to the end customer

FITS IN EVERY ELEVATOR

Remote condition monitoring on any elevator

DEEP DOOR PERFORMANCE ANALYSIS

Where most callbacks occur (60-80%)

PEOPLE COUNTING FOR TRAFFIC ANALYSIS

People counting for traffic flow analysis
Absolute unique

INSTALLATION OF CEGARD/SMART AND CONNECTIVITY

CEDES cegard/Smart IoT-enabling light curtains are easy to install for current and new customers.

- ▶ cegard/Smart is combined with [SKYLER Elevate](#), an IoT-service from relayr, to provide a complete IoT solution.
- ▶ The control unit can be placed anywhere on the cabin roof.
- ▶ The connectivity is activated via the onboarding app using a smart phone.



CEDES AG is certified according to ISO 9001: 2015

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