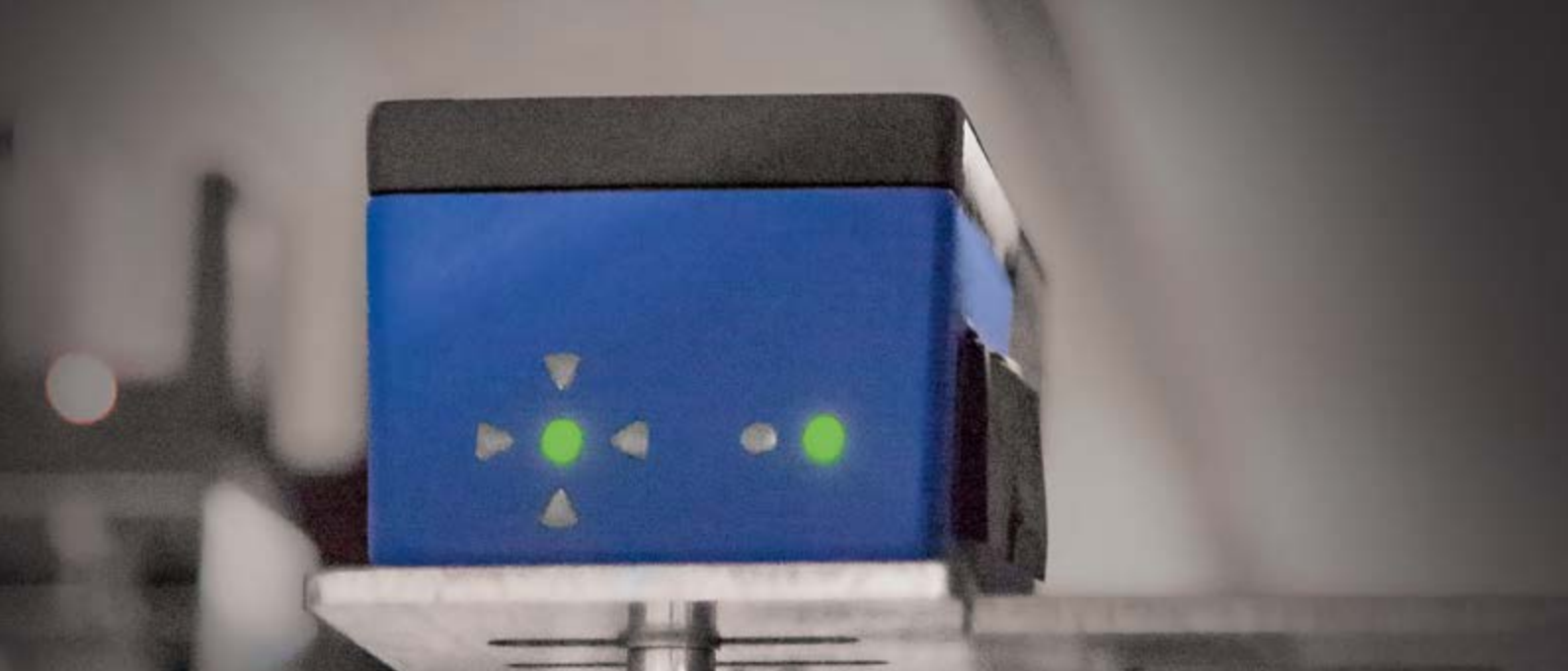




Elevator sensors

Product overview

CEDES
More than you expect!



The global partner

From its foundation in 1986, CEDES has established key partnerships with leading names in the elevator industry, providing innovative door safeguarding, hoistway information and safe communication solutions. Our worldwide presence ensures we are where you are.

Innovation lies at the heart of CEDES. We have pushed the limits of technology to develop an impressive portfolio of advanced and reliable products. Our two latest breakthrough products underline this: A compact sensor that provides full door area safeguarding and a single system which eliminates the need for many individual safety components within the hoistway.

CEDES has a vital role as technological partner to our customers. We tailor-fit our solutions to meet their current and future sensor needs. Every CEDES product, whether proven or cutting edge, offers true added-value and reduced system costs.

CEDES – More than you expect!





for precise positioning

APS – Absolute Positioning System

APS



The APS is a touchless and wear-free system that determines the absolute position and velocity of the elevator car and transmits it to the controller.

- Up to 1,500 m
- Up to 20 m/s
- SIL 3 certified
- Robust against smoke and dust

iDiscovery – position supervisor system

APS and iDiscovery



The iDiscovery monitors position and velocity of the elevator car as well as the status of the car and hoistway doors. Based on this information, the iDiscovery takes over safety relevant functions such as:

- Leveling, re-leveling and preliminary operation with open doors
- Detection of unintended car movement
- Overspeed detection
- Retardation control
- Final and inspection limit switches

GLS - slot type sensors

GLS 126 NT



GLS 126 NT-MV



GLS 326



GLS 526



Technical data

	GLS 126 NT	GLS 126 NT-MV	GLS 326	GLS 526
Type	Slot-type sensor	Medium voltage slot-type sensor	Multi-beam, medium voltage slot-type sensor	Slot-type sensor with multiple slots
Number of beams	1	1	3	5
Supply voltage	10 ... 30 VDC	12 ... 60 VDC	12 ... 60 VDC	10 ... 30 VDC
Output	PNP/NPN (push-pull)	PNP	PNP	PNP or NPN
Enclosure rating	IP65	IP65	IP65	IP65
Certificates	CE, CSA	CE, CSA	CE	CE, CSA



for intelligent safeguarding

TOFgard – full door area safeguarding sensor

TOFgard



The compact and versatile TOFgard camera sensor is an evolution in elevator door safeguarding. It provides extended safeguarding across both the cabin and landing door closing edges. This EN 81-20 compliant platform offers full door area protection for passengers, freight and the door itself.

- Shipping volume 40 times smaller than a light curtain
- Four-minute mounting time
- Increases passenger safety
- Optional entrance-area monitoring and people-counting
- Detection of object position allows for smarter door response, increasing flight time

cegard - light curtains

cegard/Mini



cegard/Mini-CC



cegard/Mini-MOD



cegard/Lift



Technical data

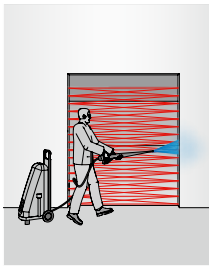
Type	Comfort light curtain	Comfort light curtain	Comfort light curtain	Safety light curtain
Application segment	New installations	EN 81-20 installations	Modernization	Elevators without car doors
Range (in m)	0 ... 4	0 ... 4	0 ... 5	0.7 ... 4 / 4 ... 8
Number of elements / beams	16 / 74, 32 / 154	20 / 94, 33 / 159*, 36 / 174*	16 / 74, 24 / 114, 32 / 154	16 / 46, 24 / 70
Output	PNP/NPN (push-pull)	PNP/NPN (push-pull)	Relay	Relay / PNP
Enclosure rating	IP65 / IP67	IP65 / IP67	IP65 / IP67, UPS: IP54	IP65 / IP67, Control unit: IP54
Certificates	CE, CSA, EX optional	CE, CSA	CE, CSA	CE, TÜV, EX optional

* beams remain active up to complete door closure



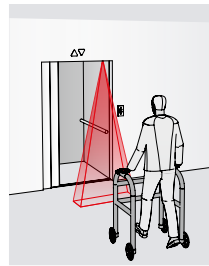
for reliable detecting

Special applications



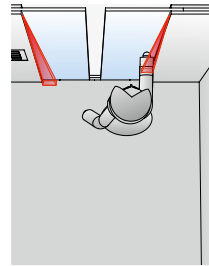
Allows intensive cleaning

The highly customizable cegard/Max is available as fully potted (waterproof), in any length, with cascaded edges and different number of elements.



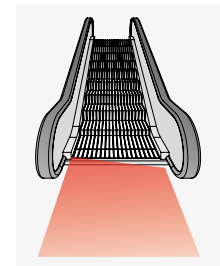
Monitors entrance area

The IMS 100 monitors the elevator entrance area. The sensor reduces door-opening time, thereby improving elevator efficiency.



Protects fingers from squeezing

The TOF/Spot ensures reliable detection of children's hands touching on glass elevator doors and avoids injuries.



Detects approaching people

The TOF/Start detects people approaching an escalator or passengers in an elevator cabin. It provides a two-dimensional detection area, which can be set individually up to a maximum of 2 m x 2 m.

cegard/Max custom-made



IMS 100



TOF/Spot



TOF/Start



Technical data

Type	Comfort light curtain	Comfort 3D sensor	Safety 3D sensor	Comfort 3D sensor
Range (in m)	0 ... 5	0.6 ... 2.5	0.2 ... 6	0.06 ... 2
Detection area	20 mm up to 2,702.5 mm	200 mm × 900 mm at 2 m installation height	40 mm × 40 mm at 2 m installation height	2,000 mm × 2,000 mm (adjustable)
Output	Relay	PNP	Solid-state relay	Solid-state relay
Enclosure rating	IP65 / IP67, control unit: IP54	IP54	IP65	IP65
Certificates	CE, CSA	CE, CSA	CE, TÜV	CE

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