

SafeSign LED - signs for safe and effective airports

Illuminated Guidance Signs

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SafeSign LED

Safegate has provided high quality addressable light systems, Docking Guidance Systems and other equipment to airports around the world for 35 years. Our knowledge gained from long experience of the airport environment is invested in the design and production of illuminated guidance signs for a wide variety of airfield applications.

Safesigns are easy to read in daylight as well as in darkness and limited visibility. The high readability is a result of a high quality front panel, since the legends on the sign fronts are made using UV Inkjet Printer Technology. This combined with the robust aluminium construction, the state-of-the-art electronics and the outstanding lifetime of the LED source, make Safesign uniquely versatile and suitable for airport environments around the world.

Sturdy, corrosion resistant aluminium frame

The sign frame is made from aluminium profiles and painted with powder coat paint. All hardware and fasteners are made of stainless steel.

The construction is robust and highly corrosion resistant, an essential feature since many airports are located in harsh environments. The frame is mounted on frangible aluminium poles.

Strong back plate

A back plate of 1.5 mm painted aluminium with high corrosion resistance adds to the strength of the sign construction. Each back plate has reflective stickers to minimize the risk of collision in low visibility.

Reflector to enhance readability

The internal reflector of 1 mm white painted aluminium distributes the light evenly over the screen-painted front panel, providing exceptional readability in all weather conditions.

Long life front panel with 5-year warranty

Safesign's unique front panel of 4 mm polycarbonate provides a long life reflection-free surface. The letters and symbols are printed on the inside of the sign, which ensures a longer life span. Safegate offers a five-year warranty for the front panel.

Long life LED light sources

The sign is equipped with 24VDC LED tubes with a life span of at least 50,000 hours. The LED sign technology offers a long lasting light source, low power consumption and low maintenance costs.



Sturdy, long life signs with simple installation and maintenance



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Safesign complies with the following regulations/requirements:

ICAO Annex 14

Degree of protection
IP64

Wind load
ICAO mode 2 (322 km/h)

Operating temperature
-25°C to 55°C

Alternatives to order

Light source:

- Fluorescent tubes
- Halogen lamps

Electrical system:

- Series system 2.8-6.6 A dimmable (standard)
- Series system 2.8-6.6 A fixed intensity
- Parallel system 120-240 VAC

Installation

- Aluminium pole for mounting on flat surface (standard)
- Aluminium pole for concrete foundations

Sign Width (mm)	Qty of Poles	Qty of Tubes	Power consumption (watt)	Recommended isolation transformer (watt)
1100	2	1	43	65
1300	2	1	51	65
1600	2	1	54	65
1800	2	2	64	65
2100	3	2	77	100
2500	3	2	77	100
2700	3	2	84	100
3000	4	2	84	100

Versatile power supply

When using the LED sign with a series system, an electronic converter is an integrated part of the sign and connects to the series circuit through the transformer. The converter provides a dimmable light source between 2.8-6.6A (ICAO light intensity requirements at 6.6A).

As an option the sign may also be ordered with fixed intensity 100% (2.8-6.6A). This version with constant light output requires a slightly higher power consumption.

A sign for connection to a parallel system 120-240 VAC is also available.

Terminal blocks are located at both ends of the sign for easy connection to the power supply, and all signs are provided with an internal earthing point.

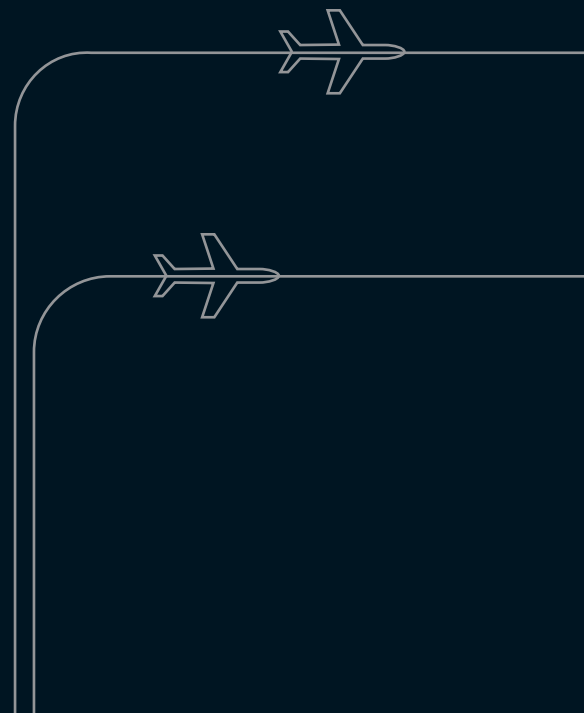
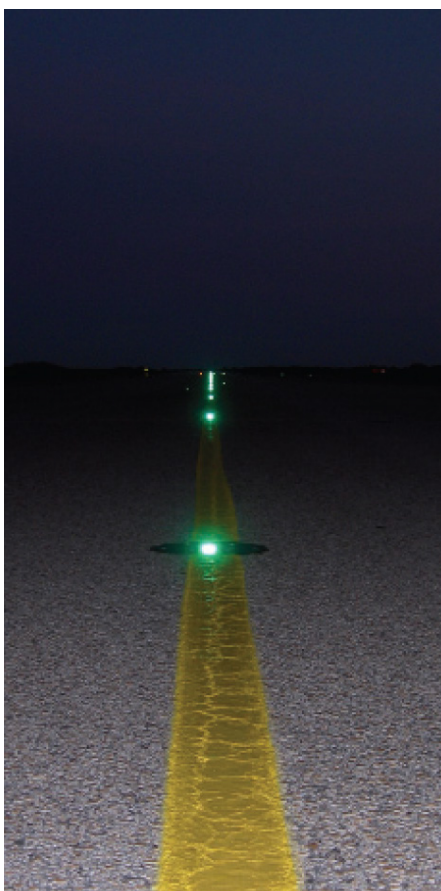
Simple, adaptable installation

The Safesign can be installed in a number of different ways, depending on site conditions and requirements.

For fixing the sign on a flat concrete or asphalt surface, the poles are installed together with frangible couplings in sturdy aluminium feet, which are attached to the surface in a manner suitable to the situation at hand.

Aluminium poles with frangible couplings can be used for installing the sign in pre-cast concrete pole foundations. The poles are inserted into the holes of the pre-cast concrete foundations.

Safe and easy maintenance
An easy to open hinged front allows easy access to the inside of the sign. The sign is fitted with a standard switch that allows maintenance personnel to isolate the sign in order to work safely. If necessary, the front panels can be changed quickly and easily without the use of tools to minimize the work on site.



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Check in to the future

How many aircraft can your airport handle today? Can this number be increased without adverse effects on the airport's safety level? It is a known fact that traffic volume will rise in the foreseeable future. More movements will demand monitoring of the entire airport. Requirements will be sharpened and the development of an integrated system controlling not

only ground movements but also air traffic close to the airport is of the highest interest. The International Civil Aviation Organization (ICAO) already describes A-SMGCS, Advanced Surface Movement Guidance and Control System, as the answer to the future modern airport need to control the entire airport space in one superior system.

To a larger extent than today's systems, A-SMGCS will rely on automated processes to give both pilots and traffic controllers exact information about positions and directions. Safegate Group delivers complete A-SMGCS solutions already, as well as all vital parts relating to it. Safegate Group can check your airport into the future – today!



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THORN **IDMAN**
Airfield Lighting

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GROUP 

Safegate Group offers solutions for increased safety, efficiency and environmental benefits to airports around the world. The company was founded in 1973 and has its headquarters in Malmö, Sweden. Safegate Group has over 70 partners around the globe in order to be close to its customers. The latest members of Safegate Group, Thorn AFL and Idman, have both over 40 years of experience in airfield lighting solutions for airports and heliports worldwide. Safegate Group's complete range of products and services, a "one-stop shop", provides solutions to customers and airborne travellers around the globe.