



Airfield Lighting
Elevated LED

Spare Parts

SP-4001, Rev. 1.3, 2023/08/25

ADB 
SAFEGATE

A.0 Disclaimer / Standard Warranty

CE certification

The equipment listed as CE certified means that the product complies with the essential requirements concerning safety and hygiene. The European directives that have been taken into consideration in the design are available on written request to ADB SAFEGATE.

ETL certification

The equipment listed as ETL certified means that the product complies with the essential requirements concerning safety and C22.2 No.180:13 (R2018) regulations. The CSA directives that have been taken into consideration in the design are available on written request to ADB SAFEGATE.

All Products Guarantee

ADB SAFEGATE will correct by repair or replacement per the applicable guarantee below, at its option, equipment or parts which fail because of mechanical, electrical or physical defects, provided that the goods have been properly handled and stored prior to installation, properly installed and properly operated after installation, and provided further that Buyer gives ADB SAFEGATE written notice of such defects after delivery of the goods to Buyer. Refer to the Safety section for more information on Material Handling Precautions and Storage precautions that must be followed.

ADB SAFEGATE reserves the right to examine goods upon which a claim is made. Said goods must be presented in the same condition as when the defect therein was discovered. ADB SAFEGATE further reserves the right to require the return of such goods to establish any claim.

ADB SAFEGATE's obligation under this guarantee is limited to making repair or replacement within a reasonable time after receipt of such written notice and does not include any other costs such as the cost of removal of defective part, installation of repaired product, labor or consequential damages of any kind, the exclusive remedy being to require such new parts to be furnished.

ADB SAFEGATE's liability under no circumstances will exceed the contract price of goods claimed to be defective. Any returns under this guarantee are to be on a transportation charges prepaid basis. For products not manufactured by, but sold by ADB SAFEGATE, warranty is limited to that extended by the original manufacturer. This is ADB SAFEGATE's sole guarantee and warranty with respect to the goods; there are no express warranties or warranties of fitness for any particular purpose or any implied warranties of fitness for any particular purpose or any implied warranties other than those made expressly herein. All such warranties being expressly disclaimed.

Standard Products Guarantee

Products manufactured by ADB SAFEGATE are guaranteed against mechanical, electrical, and physical defects (excluding lamps) which may occur during proper and normal use for a period of two years from the date of ex-works delivery, and are guaranteed to be merchantable and fit for the ordinary purposes for which such products are made.



Note

See your applicable sales agreement for a complete warranty description.

Replaced or repaired equipment under warranty falls into the warranty of the original delivery. No new warranty period is started for these replaced or repaired products.

FAA Certified products manufactured by ADB SAFEGATE

ADB SAFEGATE L858 Airfield Guidance Signs are warranted against mechanical and physical defects in design or manufacture for a period of 2 years from date of installation, per FAA AC 150/5345-44 (applicable edition).

ADB SAFEGATE LED products (with the exception of obstruction lighting) are warranted against electrical defects in design or manufacture of the LED or LED specific circuitry for a period of 4 years from date of installation, per FAA EB67 (applicable edition). These FAA certified constant current (series) powered LED products must be installed, interfaced and powered with and through products certified under the FAA Airfield Lighting Equipment Program (ALECP) to be included in this 4 (four) year warranty. This includes, but is not limited to, interface with products such as Base Cans, Isolation Transformers, Connectors, Wiring, and Constant Current Regulators.



Note

See your sales order contract for a complete warranty description.

Replaced or repaired equipment under warranty falls into the warranty of the original delivery. No new warranty period is started for these replaced or repaired products.

Liability



WARNING

Use of the equipment in ways other than described in the catalog leaflet and the manual may result in personal injury, death, or property and equipment damage. Use this equipment only as described in the manual.

ADB SAFEGATE cannot be held responsible for injuries or damages resulting from non-standard, unintended uses of its equipment. The equipment is designed and intended only for the purpose described in the manual. Uses not described in the manual are considered unintended uses and may result in serious personal injury, death or property damage.

Unintended uses, includes the following actions:

- Making changes to equipment that have not been recommended or described in this manual or using parts that are not genuine ADB SAFEGATE replacement parts or accessories.
- Failing to make sure that auxiliary equipment complies with approval agency requirements, local codes, and all applicable safety standards if not in contradiction with the general rules.
- Using materials or auxiliary equipment that are inappropriate or incompatible with your ADB SAFEGATE equipment.
- Allowing unskilled personnel to perform any task on or with the equipment.

Copyright Statement

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This manual could contain technical inaccuracies or typographical errors. The author reserves the right to revise this manual from time to time in the contents thereof without obligation of the author to notify any person of such revision or change. Details and values given in this manual are average values and have been compiled with care. They are not binding, however, and the author disclaims any liability for damages or detriments suffered as a result of reliance on the information given herein or the use of products, processes or equipment to which this manual refers. No warranty is made that the use of the information or of the products, processes or equipment to which this manual refers will not infringe any third party's patents or rights. The information given does not release the buyer from making their own experiments and tests.

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1.0 Elevated LED

ICAO

- Approach Centerline and Cross Bar
- Approach Siderow
- Runway Threshold and Threshold Wing Bar
- Runway End
- Stop Bar

FAA

- Stop Bar L-862S(L)
- Runway Threshold L-862E(L)
- Runway End L-862E(L)



2.0 Spare Parts

2.1 Components

	Components	Versions	Article number	Packing ¹
A	Optical cartridge (including front glass, optical block, MCPCB and cartridge assembled)	Optical cartridge, 16 White LEDs, ICAO Approach centerline & crossbar	SP012861	Per 1
		Optical cartridge, 8 Red LEDs, ICAO Siderow	SP012862	Per 1
		Optical cartridge, 8 Green LEDs, ICAO Threshold & Threshold Wingbar	SP012863	Per 1
		Optical cartridge, 8 Red LEDs, ICAO Runway End	SP012865	Per 1
		Optical cartridge, 4 Red LEDs, ICAO Stopbar Straight	SP012866	Per 1
		Optical cartridge, 4 Red LEDs, ICAO Stopbar Curved	SP012938	Per 1
		Optical cartridge, 8 Green LEDs, FAA Threshold (L862E)	SP012867	Per 1
		Optical cartridge, 8 Red LEDs, FAA Runway End (L862E)	SP012868	Per 1
		Optical cartridge, 8 Red LEDs, FAA Stopbar (L862S)	SP012869	Per 1
B	Optical cover	For all applications except FAA L-862S stop bar	1406.00.230	Per 5
		Optical cover for FAA L-862S stop bar	SP.1408.20.201	Per 5
C	Optical cover gasket kit		1406.00.240	Per 20 U-shaped and 20 L-shaped gaskets
D	Clamp band for the optical cover (including the safety pin)		1406.00.250	Per 5
E	Electronic cartridge	No monitoring option (complete with PCB, gasket, spring pins and screws for the latches)	SP.14006.00.450	Per 1
		With monitoring option (complete with PCB, gasket, spring pins and screws for the latches)	SP.14006.00.460	Per 1
		IQ Option (complete with PCB, gasket, spring pins and screws for the latches)	SP.14006.00.470	Per 1
F	Cartridge gasket kit (with optical cartridge and electronic cartridge gaskets)		SP.1406.00.330	Per 20 U-shaped and 20 L-shaped gaskets for the optical cartridge and 20 gaskets for the electronic cartridge
G	LED supply cable		1406.00.340	Per 20
H	Cable lead with plug, for ground mounting (including two fast-on connectors)		1406.00.350	Per 5
I	Earthing kit (with all wires, screws, washers and tab connectors)		1406.00.360	Per 10
J	Cable gland		1406.00.370	Per 5
K	Fixation screw kit (including M6×25 screws, M6×60 screws, M6 nuts)		1406.00.390	Per 1 set for a complete fixture
	Fixation screw kit (including M8×25 screws, M8×45 screws, M8 nuts)		1406.00.395	Per 1 set for a complete fixture
L	Bird deterrent kit		1406.00.400	Per 5
M	Fuse resistor kit, for monitoring option		6132.00.250	Per 20
N	Closing Block Kit (included three blocks, M3 and M4 screws and bolts) ²		SP.1406.00.501	Per 1
O	V2 Leap Breathable Vent & O-ring		SPAK00053-000-01	Per 1

Notes

	Components	Versions	Article number	Packing ¹
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¹ Example: If you order 1× article number 1406.00.370, you will receive 5 cable glands.

² Gaskets for the optical and electronic cartridges need to be ordered separately.

2.2 Accessories

These parts can be bought separately.

	Details	Article number
A	Standard alignment tool	1570.05.511
B	Electronic alignment tool	1570.05.521

2.3 Screws Overview

Screw type	Name	Quantity on a fixture	Torque (Nm)
M4×14	Optical block screws	4	0.7
M4×10	MCPCB screws	4	2.5
M6×25	Fixation screws	3	8
M8×25	Fixation screws ¹	3	8
M6×60	Elevation screw ¹	1	3.5
M6×40	Elevation screw ¹	1	3.5
M8×45	Elevation screws ¹	2	3.5
M4×14	Bird deterrent screw	1	2.5
M3×30	Rotation body closing block screws	3	1.3
M4×30	Power cartridge closing block screws	2	2.5
M4×35	Optical cartridge closing block screw	1	2.5
M8×30	Closing block bolts	4	8.0

Notes

¹ The torque for the lock nut has the same value as the screw.

Appendix A: SUPPORT

Our experienced engineers are available for support and service at all times, 24 hour/7 days a week. They are part of a dynamic organization making sure the entire ADB SAFEGATE is committed to minimal disturbance for airport operations.

ADB SAFEGATE Support

Live Technical Support - Americas

If at any time you have a question or concern about your product, just contact ADB SAFEGATE's technical service department. Trained in all areas of system issues, troubleshooting, quality control and technical assistance, our highly experienced Technical support specialists are available 24 hours a day, seven days a week to provide assistance over the phone.

ADB SAFEGATE **Americas Technical Service & Support (US & Canada): +1-800-545-4157**

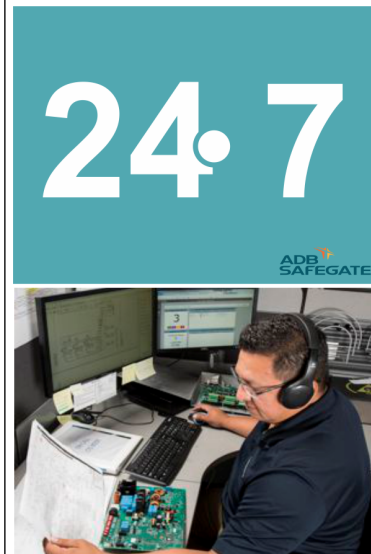
ADB SAFEGATE Americas Technical Service & Support (International): +1-614-861-1304

During regular business hours, you can also Chat with a Service Technician. We look forward to working with you!

Before You Call

When you have an airfield lighting or system control system problem it is our goal to support airfield maintenance staff as quickly as possible. To support this effort we ask that you have the following information ready before calling.

- The *airport code*
- If not with an airport, then company name (prefer customer id number)
- Contact phone number and email address
- Product with part number preferable or product number
- Have you reviewed the product's manual and troubleshooting guide
- Do you have a *True RMS* meter available (and any other necessary tools)
- Be located with the product ready to troubleshoot



Note

For more information, see www.adbsafegate.com, or contact ADB SAFEGATE Support via email at support@adbsafegate.com or

Brussels: +32 2 722 17 11

Rest of Europe: +46 (0) 40 699 17 40

Americas: +1 614 861 1304. Press 3 for technical service or press 4 for sales support.

China: +86 (10) 8476 0106

A.1 ADB SAFEGATE Website

The ADB SAFEGATE website, www.adbsafegate.com, offers information regarding our airport solutions, products, company, news, links, downloads, references, contacts and more.

A.2 Recycling

A.2.1 Local Authority Recycling

The disposal of ADB SAFEGATE products is to be made at an applicable collection point for the recycling of electrical and electronic equipment. The correct disposal of equipment prevents any potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling. The recycling of materials helps to conserve natural resources. For more detailed information about recycling of products, contact your local authority city office.

A.2.2 ADB SAFEGATE Recycling

ADB SAFEGATE is fully committed to environmentally-conscious manufacturing with strict monitoring of our own processes as well as supplier components and sub-contractor operations. ADB SAFEGATE offers a recycling program for our products to all customers worldwide, whether or not the products were sold within the EU.

ADB SAFEGATE products and/or specific electrical and electronic component parts which are fully removed/separated from any customer equipment and returned will be accepted for our recycling program.

All items returned must be clearly labeled as follows:

- For *ROHS/WEEE* Recycling
- Sender contact information (Name, Business Address, Phone number).
- Main Unit Serial Number.

ADB SAFEGATE will continue to monitor and update according for any future requirements for *EU directives* as and when *EU member states* implement new *regulations* and or *amendments*. It is our aim to maintain our *compliance plan* and assist our customers.

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