



8" Omnidirectional SafeLED Inset Light
Taxiway Edge, Aircraft Stand Manoeuvring Guidance (SL-TE-I, SL-
SG-I)

User Manual

UM-0017, Rev. 2.2, 2020/11/20


**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.

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Note

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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 L858(L) Airfield Guidance Signs 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).

ADB SAFEGATE LED light fixtures (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).



Note

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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.

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1.0 Safety

Introduction to Safety

This section contains general safety instructions for installing and using ADB SAFEGATE equipment. Some safety instructions may not apply to the equipment in this manual. Task- and equipment-specific warnings are included in other sections of this manual where appropriate.

1.1 Safety Messages

HAZARD Icons used in the manual

For all HAZARD symbols in use, see the Safety section. All symbols must comply with ISO and ANSI standards.

Carefully read and observe all safety instructions in this manual, which alert you to safety hazards and conditions that may result in personal injury, death or property and equipment damage and are accompanied by the symbol shown below.



WARNING

Failure to observe a warning may result in personal injury, death or equipment damage.



DANGER - Risk of electrical shock or ARC FLASH

Disconnect equipment from line voltage. Failure to observe this warning may result in personal injury, death, or equipment damage. ARC Flash may cause blindness, severe burns or death.



WARNING - Wear personal protective equipment

Failure to observe may result in serious injury.



WARNING - Do not touch

Failure to observe this warning may result in personal injury, death, or equipment damage.



CAUTION

Failure to observe a caution may result in equipment damage.

Qualified Personnel



Important Information

The term **qualified personnel** is defined here as individuals who thoroughly understand the equipment and its safe operation, maintenance and repair. Qualified personnel are physically capable of performing the required tasks, familiar with all relevant safety rules and regulations and have been trained to safely install, operate, maintain and repair the equipment. It is the responsibility of the company operating this equipment to ensure that its personnel meet these requirements.

Always use required personal protective equipment (PPE) and follow safe electrical work practice.

1.1.1 Introduction to Safety



CAUTION

Unsafe Equipment Use

This equipment may contain electrostatic devices, hazardous voltages and sharp edges on components

- Read installation instructions in their entirety before starting installation.
- Become familiar with the general safety instructions in this section of the manual before installing, operating, maintaining or repairing this equipment.
- Read and carefully follow the instructions throughout this manual for performing specific tasks and working with specific equipment.
- Make this manual available to personnel installing, operating, maintaining or repairing this equipment.
- Follow all applicable safety procedures required by your company, industry standards and government or other regulatory agencies.
- Install all electrical connections to local code.
- Use only electrical wire of sufficient gauge and insulation to handle the rated current demand. All wiring must meet local codes.
- Route electrical wiring along a protected path. Make sure they will not be damaged by moving equipment.
- Protect components from damage, wear, and harsh environment conditions.
- Allow ample room for maintenance, panel accessibility, and cover removal.
- Protect equipment with safety devices as specified by applicable safety regulations
- If safety devices must be removed for installation, install them immediately after the work is completed and check them for proper functioning prior to returning power to the circuit.

Failure to follow this instruction can result in serious injury or equipment damage

Additional Reference Materials



Important Information

- IEC - International Standards and Conformity Assessment for all electrical, electronic and related technologies.
- IEC 60364 - Electrical Installations in Buildings.
- FAA Advisory: AC 150/5340-26 (current edition), Maintenance of Airport Visual Aid Facilities.
- Maintenance personnel must refer to the maintenance procedure described in the ICAO Airport Services Manual, Part 9.
- ANSI/NFPA 79, Electrical Standards for Metalworking Machine Tools.
- National and local electrical codes and standards.

1.1.2 Intended Use



CAUTION

Use this equipment as intended by the manufacturer

This equipment is designed to perform a specific function, do not use this equipment for other purposes

- Using this equipment in ways other than described in this manual may result in personal injury, death or property and equipment damage. Use this equipment only as described in this manual.

Failure to follow this instruction can result in serious injury or equipment damage

1.1.3 Material Handling Precautions: Storage



CAUTION

Improper Storage

Store this equipment properly

- If equipment is to be stored prior to installation, it must be protected from the weather and kept free of condensation and dust.

Failure to follow this instruction can result in equipment damage

1.1.4 Operation Safety



CAUTION

Improper Operation

Do Not Operate this equipment other than as specified by the manufacturer

- Only qualified personnel, physically capable of operating the equipment and with no impairments in their judgment or reaction times, should operate this equipment.
- Read all system component manuals before operating this equipment. A thorough understanding of system components and their operation will help you operate the system safely and efficiently.
- Before starting this equipment, check all safety interlocks, fire-detection systems, and protective devices such as panels and covers. Make sure all devices are fully functional. Do not operate the system if these devices are not working properly. Do not deactivate or bypass automatic safety interlocks or locked-out electrical disconnects or pneumatic valves.
- Protect equipment with safety devices as specified by applicable safety regulations.
- If safety devices must be removed for installation, install them immediately after the work is completed and check them for proper functioning.
- Route electrical wiring along a protected path. Make sure they will not be damaged by moving equipment.
- Never operate equipment with a known malfunction.
- Do not attempt to operate or service electrical equipment if standing water is present.
- Use this equipment only in the environments for which it is rated. Do not operate this equipment in humid, flammable, or explosive environments unless it has been rated for safe operation in these environments.
- Never touch exposed electrical connections on equipment while the power is ON.

Failure to follow these instructions can result in equipment damage

1.1.5 Maintenance Safety



DANGER

Electric Shock Hazard

This equipment may contain electrostatic devices

- Do not operate a system that contains malfunctioning components. If a component malfunctions, turn the system OFF immediately.
- Disconnect and lock out electrical power.
- Allow only qualified personnel to make repairs. Repair or replace the malfunctioning component according to instructions provided in its manual.

Failure to follow these instructions can result in death or equipment damage

1.1.6 Material Handling Precautions, ESD



CAUTION

Electrostatic Sensitive Devices

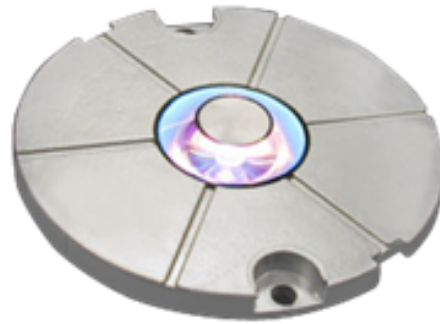
This equipment may contain electrostatic devices

- Protect from electrostatic discharge.
- Electronic modules and components should be touched only when this is unavoidable e.g. soldering, replacement.
- Before touching any component of the cabinet you shall bring your body to the same potential as the cabinet by touching a conductive earthed part of the cabinet.
- Electronic modules or components must not be brought in contact with highly insulating materials such as plastic sheets, synthetic fiber clothing. They must be laid down on conductive surfaces.
- The tip of the soldering iron must be grounded.
- Electronic modules and components must be stored and transported in conductive packing.

Failure to follow this instruction can result in equipment damage

2.0 8" Omnidirectional SafeLED Inset Light (SL-TE-I, SL-SG-I)

- Taxiway Edge
- Aircraft Stand Maneuvering Guidance



2.1 Introduction

In this section you find a general description and safety instructions related to the installation and usage of the fitting.

The SafeLED TE-I is an omnidirectional LED inset light. The light is available in two versions: for connection in a series circuit or for connection in a parallel system.

2.1.1 Safety Instructions

Make sure you read this section and are familiar with safety precautions before any work is started.

2.1.1.1 Product Safety

Airfield lighting fixtures in a constant current circuits are connected in a circuit via isolating transformers with currents between 2.0 – 6.6A in the primary circuits. The primary voltages, depending on the circuitry, are usually several kilovolts (kV) and therefore lethal. Although the open circuit voltages of the isolating transformers are much lower, the peak voltage while opening the secondary circuit under current is also hazardous. So it is vitally important to follow all the safety regulations with adequate circumspection.

In the design of this equipment all the practical safety aspects have been taken into account. It is also important to strictly follow existing international or national regulations, the instructions established by civil aviation authority or airport operator and the following instructions.

2.1.1.2 Electrical Maintenance

Valid safety regulations must always be followed. Never carry out any maintenance or maintenance measures before the current is confirmed as safely disconnected. Use extreme caution when disconnecting or connecting high voltage primary connectors.



WARNING

PRIOR TO THE COMMENCEMENT OF WORK ALL ELECTRICAL SERVICES MUST BE ISOLATED FROM THE SUPPLY AND CONNECTED TO EARTH. FULL DETAILS OF THE WORK INVOLVED MUST BE GIVEN TO THE AUTHORIZED PERSON RESPONSIBLE FOR THE ELECTRICAL ENGINEERING SERVICES AT THE AIRPORT WITH REGARD TO THE DURATION OF THE WORK AND SO ON. IT IS RECOMMENDED THAT PRIOR TO STARTING ANY CUTTING WORK, THE NATURE AND LOCATION OF SERVICES SUCH AS CABLE DUCTS AND THE LIKE SHOULD BE IDENTIFIED. ANY INSTALLATION OR MAINTENANCE WORK SHOULD ONLY BE CARRIED OUT BY TRAINED AND EXPERIENCED PERSONNEL. ALSO, WHEN WORKING ON CIRCUITS USING AIRFIELD SMART POWER SYSTEM (ASP) THE SCM MUST BE TUNED OFF.

2.1.1.3 Mechanical Maintenance

When maintaining mechanical components, it is important to follow the instructions for electrical maintenance.

2.1.2 Description of the fitting

The inset light is an 8" omnidirectional low projection inset LED light provided with a blue LED.

The fitting can be installed in standard bases or with adapter rings in an existing/new airfield lighting system.

2.1.3 Delivery of the fitting

The fittings are ready for installation, each unit supplied completely assembled, tested and sealed. The electrical connection is with one secondary cable to a transformer, the cable is equipped with an FAA L-823 plug (style 6) for the 6.6A version or with an Amphenol S44 (style 3) plug for the VAC version.

Each unit is individually packed in a durable, cushioned and corrugated cardboard box, labeled with its reference name and code.

For more information, see www.adbsafegate.com.

3.0 Installation

In this section you find a description of the different steps for successful installation of the fitting. Before you start, make sure you have read and understand [Safety Instructions](#).

When removing the fitting from its packaging box, check that nothing is broken.

The screw tapping of the frangible support can be either 2 in. NPS (American standard - 11.5 threads per inch) or 2 in. BPS (British standard - 11 threads per inch). Check support and base tapping fit.

The following tools and accessories are required for installation and removal of the unit:

Standard tools and accessories:

- One Box spanner 16 mm (for installation in standard Thorn bases) or for example (non-standard Thorn AFL) 17mm, 3/8" UNC
- One torque wrench with a 16mm adapter
- Two big screwdrivers for removal
- One brush or cloth

The installation steps refer to:

1. Installing/removing the fitting



Note

Provided that the base intended to receive the fitting has been properly installed, no other specific tool is required.

3.1 Installing/removing the fitting

When opening a fitting box, verify the fitting characteristics correspond to site design requirements, for example type, color etc. Carefully clean all contact surfaces: fitting, base and adapter ring, if required.

Install

1. Place the O-ring gasket (1) on the 8" fitting in the base.

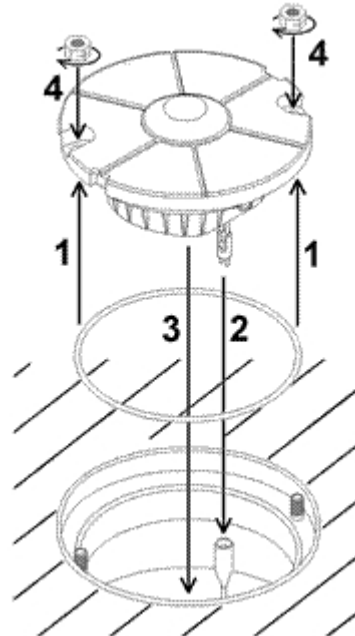


Note

New 8" fittings are delivered with the O-ring gasket in place. For previously used fittings, it is recommended to replace the O-ring gasket and the lock nuts before re-installation.

2. Check the fitting corresponds to site installation position, for example color and direction.
3. Connect the fitting connector to the base supply cable (2).
4. Install the fitting on the base (3).
5. For installation on THORN bases, use a 16 mm torque limiting box spanner to secure the fixing bolts (see 4) to a torque of 35 Nm (= 3.5 kg m).
For other manufacturers, refer to their specifications.
6. When all fittings are installed, check each fitting for proper functionality.

Figure 1: SL-TE-I installation



Remove

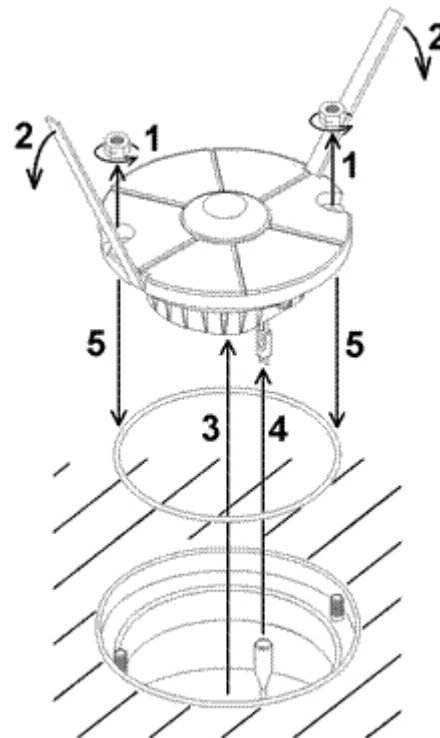
1. Unscrew the fixing bolt.
2. Unfasten the fitting with two big screwdrivers.
3. Carefully lift the fitting.
4. Disconnect the supply connector.
5. Remove the O-ring gasket.



Note

After removing a fitting, it is recommended to clean all contact surfaces, replace the O-ring gasket and the lock nuts in preparation for or before re-installation.

Figure 2: SL-TE-I REMOVAL



4.0 Maintenance

In this section you find a description of the different steps for the maintenance of the fitting.

Before you start, make sure you have read and understand [Safety Instructions](#).

Find out the location of the light unit that needs maintenance. If the purpose is to replace an existing light unit with new one, make sure that corresponding unit is available.



WARNING

WHEN A FITTING HAS BEEN REMOVED FROM ITS BASE, THE BASE MUST BE EITHER FITTED WITH A COVER OR A RESERVE FITTING PUT IN ITS PLACE.

IT IS RECOMMENDED THAT ONLY AUTHORIZED PERSONNEL DISASSEMBLE FITTINGS WITH PRIOR AGREEMENT FROM SAFEGATE.

4.1 Basic maintenance program

There are recommended maintenance tasks to ensure that the equipment is in correct operating condition.

Maintenance tasks	
Weekly	<ul style="list-style-type: none"> • Visual inspection of the fitting. • Removal of dust from external surfaces of the fitting.
Monthly	<ul style="list-style-type: none"> • Check of the optical window, check for mechanical damage. • Check for proper fixing of the fitting in its base.
Yearly	<ul style="list-style-type: none"> • Detailed inspection of the fitting. • Check of the body resistance, check for mechanical damage (for example cracks around prism windows). • Clean of the optical windows.

A daily function check is referred to in the document:

ICAO, Airport Services Manual Part 9, Airport Maintenance Practice and FAA AC 150/5340-26A, Maintenance of airport visual aids facilities

The light is designed for outdoor operation, however storing the light outside without using it is a risk for damage to light components. For a longer storage time (more than a week), it is recommended to store the light indoors in a dry and dust free environment and at room temperature. Proper storage ensures trouble free replacement procedures. It is strongly recommended not to store any electrical equipment outside.



Note

Only the most common maintenance procedures are instructed in following paragraphs. Construction of the luminaire allows that it can be fully disassembled and all the parts can be replaced if needed.

4.2 Workshop maintenance

Before you start, make sure you have read and understand [Safety Instructions](#).

The following tools and accessories are required for installation and removal of the unit:

- One angled socket spanner of 7 mm (wiring cover)
- One angled socket spanner of 10 mm (housing)

- One angled socket spanner of 16 mm (standard Thorn AFL base installation)
 - One Torque limiting spanner with 16 mm, 10mm, 5 mm adapters
 - One 5 mm Allen key (LED board holder screws)
 - One angled socket spanner of 22 mm (VAC converter cable gasket nut)
 - Two large flat blade screwdrivers (base removal)
 - Silicone grease (housing screws)
 - One angled socket spanner of 12 mm (valve water-tightness)
 - Special sealing compound (valve water-tightness)
 - One brush or cloth (general cleaning)
-



Note

A compressor (or a manual car tyre pump) equipped with a manometer is required to check the fitting for water-tightness.

The workshop maintenance refers to following:

1. Disassembling/assembling the fitting
2. Checking the fitting for water tightness
3. Replacing a LED assembly with holder
4. Replacing a prism and its gasket
5. Replacing a 230V or VAC converter

4.2.1 Disassemble/assemble the fitting

Disassemble

1. Unscrew the two cover screws using:
 - an angled socket wrench of 10 mm (non-removable screws for the VAC version) or
 - a 5 mm Allen key (M6x20 A2 Allen key screw for the 6.6A version).
2. Lift up the cover.
3. Disconnect the lamps from the supply terminal.
4. Remove the O-ring gasket from the cover.

Figure 3: SL-TE-I disassembly



Assemble

1. Carefully clean all contact surfaces of the fitting and the cover.
2. Place a new O-ring gasket on the cover.



Note

The O-ring gasket must be change each time the fitting is open.

3. Place the cover over the body and connect the lamp on the supply terminal.
4. Put the cover back in place and tighten the two screws using a torque limiting spanner n° 10 to a torque of 8 N m (equivalent to 0.8 kg m or 8 g cm).



Note

If maintenance is carried out in a workshop, check if the fitting is water tight (see next paragraph)

4.2.2 Checking the fitting for water-tightness

If maintenance is carried out in a workshop, always check if the fitting is water tight, after disassembly/assembly, before installation in the field.

1. Remove the Water-tightness test valve cap.
2. Fill up the fitting with compressed air (test pressure = 130 kPa).

3. Put the fitting in water wait 3 minutes, and check if air leaks out of the fitting.
 - a. - If air leaks out of the fitting (between housing and top plate or between prism and top plate or water-tightness valve and top plate), the fitting is not watertight and must be repaired. Release the air from the fitting. Disassemble the fitting and re-check the mating surfaces and gaskets. Assemble the fitting and perform the water-tightness test again.
 - b. + If the fixture is water tight, release the compressed air from the fitting and replace the cap on the test valve.
4. The fitting is ready to reinstall in the field.

4.2.3 Replacing a LED assembly with holder

Remove

1. Disassemble the fitting.
2. Using a 5 mm Allen key, unscrew and remove the fixing screws of the lamp holder.
3. Remove the LED assembly with holder.

Figure 4: SL-TE-I LED



Replace

1. Remove the protection film on the lens of the new LED assembly.
 2. Place a new LED assembly with holder on the fitting.
 3. Fasten the LED assembly holder using the fixing screws.
 4. Assemble the fitting.
-

4.2.4 Replacing a prism and its gasket

Remove

1. Disassemble the fitting.
2. Using a 5 mm Allen key, unscrew and remove the fixing screws of the lamp and prism holder.
3. Remove the LED assembly, prism holder and plastic washer.
From outside the fitting body, push the prism.
4. Remove the prism and gasket from the fitting body.
5. Carefully clean the contact surfaces of the window on the fitting body.

Figure 5: SL-TE-I PRISM



Replace

1. Mount the new gasket in the fitting body.



Note

It is recommended to change the gasket each time a prism is removed

2. Insert the prism in the gasket in the fitting body window.
3. Install the plastic washer, prism holder and LED assembly.
4. Install and tighten the prism holder and LED assembly screws.
5. Assemble the fitting.

4.2.5 Replacing A 230V or VAC Converter

Remove

1. Disassemble the fitting.
2. From outside the cover, unscrew and remove the compression packer threaded nut using an angled socket wrench 22 mm.
3. From outside the cover, remove the washer from the cover hole.
4. Using a medium flat screwdriver, unscrew and remove the fixing screw of the converter.
5. Remove the converter with cable.

Figure 6: SL-TE-I VAC converter removal



Replace

1. Position the new cable rubber gasket inside the cover.
2. Position the new washer inside the cover.
3. Screw on the compression packer threaded nut loosely (with a few threads).
4. From inside the cover, pull firmly on the supply cable to mount the two ends of the cable in the rubber of the compression packer. Push the cable in the rubber until the cable is outside the cover.
5. Fasten the compression packer threaded nut using an angled socket wrench of 22 mm.
6. Fasten the fixing screws of the converter into the bottom of the cover.
7. Assemble the fitting.

Figure 7: SL-TE-I VAC converter installation



5.0 Spare Parts

5.1 Spare parts RELIANCE 8" omnidirectional inset light (SL-TE-I, SL-SG-I)

Item	Description	Quantity		Order code
		Fitting	Code	
1	Top cover	1	1	14967
2	O-ring gasket 8" base ¹	1	10 100	SGE.SP24523 SGE.SP24526
3	Prism gasket ²	1	10	11563
4	Omnidirectional prism	1	1	12090
5	Prism washer	1	10	14802
6	LED assembly TE-I LED assembly SG-I	1 1	1 1	15372 15869
7	Cover gasket ³	1	10	13088
8	6.6A converter assembly including bottom cover, 6.6A converter, cables, screws, valve, seals.	1	1	15584
9	VAC converter assembly including bottom cover, VAC converter (90-260VAC, 50-60Hz), cables, screws, valve, seals.	1	1	15467
10	Valve	1	10	13091
11	Cover screws VAC version	2	20	13090



Note

1. The O-ring gasket must be changed each time the fitting is removed from the shallow base.
2. The prism gasket must be changed each time the prism is removed.
3. The O-ring gasket must be changed each time the fitting is opened.

6.0 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**

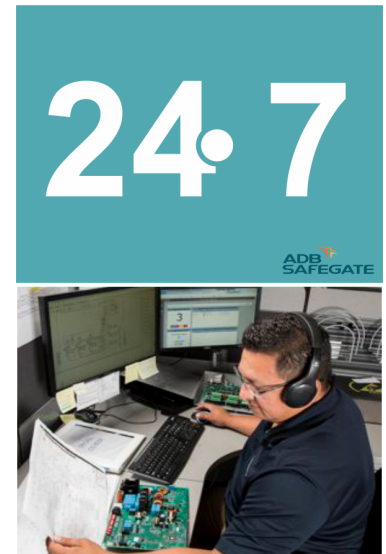
ADB SAFEGATE Americas Technical Service & Support (International): +1-614-861-1304

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

6.1 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.

6.2 Recycling

6.2.1 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.

6.2.2 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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