

# Airfield Lighting Manual

IDMAN

8" Inset Lights – IDM 5552, IDM 5562, IDM 5751

- Taxiway Centre Line (straight)
- Taxiway Centre Line (curved)
- Stop bars



**Note:** *This page is blank for convenient double-sided printing.*

**8" INSET LIGHTS**  
**IDM 5552, IDM 5562, IDM 5751**  
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## Documentation

This document includes Airfield Lighting information with a focus on safety, installation and maintenance procedures.

For more information, see [www.safegate.com](http://www.safegate.com).

**Note:** *It is very important to read this document before any work is started.*

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## History

Version	Date	Description
1.0	January 2011	First Release

**Note:** *This page is to be updated with every authorised change to the document.*

## Abbreviations and Terms

This document may include abbreviations and terms.

Abbreviation	Term
CAA	Civil Aviation Authority
CCR	Constant Current Regulator
CU	Concentrator Unit
FAA	Federal Aviation Administration
ICAO	International Civil Aviation Organization
IEC	International Electrotechnical Committee
LED	Light Emitting Diode
LMS	Light Monitor and Switch unit
NATO	North Atlantic Treaty Organization
STAC	Service Technique de l'Aviation Civile (France)
STANAG	Standardization Agreement (NATO)

## 1. INTRODUCTION

Airfield Inset lights IDM 5552, IDM 5562 and IDM 5751 are 8" light fittings with numerous lighting options for taxiway or stop bar site requirements at airports.



FIGURE 1 - 8" INSET LIGHT

The inset lights IDM 5552, IDM 5562 and IDM 5751 are used in configurations for:

- **Taxiway centre line lights** are located on the taxiway centre line marking or, if it is not possible, the offset may not be greater than 30 cm with lights on the same side of the taxiway centre line.
- **Stop bars** are located across the taxiway at the point where it is desired to traffic stop. The provision of stop bars requires their control manually or automatically by air traffic services.

### 1.1 SAFETY INSTRUCTIONS

#### 1.1.1 General safety

Make sure you read this section and are familiar with safety precautions before any work is started. Keep away from live circuits. It is vital to switch off the current securely before any installation or maintenance procedures are carried out. It is also strongly recommended to disconnect the primary circuit from CCR before these activities.

#### 1.1.2 Product safety

Airfield lighting is connected to a constant current circuit with nominal current of 6.6 amperes via an isolating transformer. The primary voltages, depending on the circuitry, are usually several kilovolts 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.

#### 1.1.3 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 AUTHORISED 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 SO ON SHOULD BE IDENTIFIED. ANY INSTALLATION OR MAINTENANCE WORK SHOULD ONLY BE CARRIED OUT BY TRAINED AND EXPERIENCED PERSONNEL.***

#### 1.1.4 Mechanical maintenance

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



***WARNING! IT IS STRONGLY RECOMMENDED TO DEPRESSURIZE THE LIGHT BEFORE OPENING FOR MAINTENANCE. IT IS IMPORTANT TO UNDERSTAND THAT OPENING A PRESSURIZED LIGHT CAUSES THE LIGHT HALVES TO SEPARATE AT HIGH SPEED, AND MAY CAUSE PERSONAL INJURY AND DAMAGE THE LIGHT.***

***THE LIGHTS ARE DESIGNED TO WITHSTAND INTERNAL PRESSURE OF 1.5 BAR. IT IS NOT ALLOWED TO EXCEED 1.5 BAR OF PRESSURE IN ANY CIRCUMSTANCES. FOR THIS REASON, IT IS NOT ALLOWED TO OPEN THE INNER COVER USING COMPRESSED AIR, AS THIS MAY CAUSE PERSONAL INJURY AND DAMAGE THE LIGHT.***

#### 1.2 DELIVERY AND OVERVIEW OF LIGHTS

Each unit is supplied completely assembled, tested and sealed, ready for installation. The electrical connection is made via one cable assembly; the cable is equipped with an FAA L-823 2-pole plug.

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

Uni- or bi- directional inset light fittings with lamp colour, dichroic filter and connector options. The lights are designed according to airfield placement and functionality.

Overview of lights					
Light	Optics	Power	Colours	Description	Order code
IDM 5552 (IDM 5552)	Narrow ( N )	40 W (/40W)	Green ( -G )	Bi-directional TCL light for straight sections, green	IDM 5552 N / 40W - G
			Green/Yellow (-G/Y)	Bi-directional TCL light for straight sections, green/yellow	IDM 5552 N / 40W - G/Y
			Yellow (-Y)	Bi-directional TCL light for straight sections, yellow	IDM 5552 N / 40W - Y
	Wide ( W )		Green ( -G )	Bi-directional TCL light for before and after curves, green	IDM 5552 W / 40W - G
			Green/Yellow (-G/Y)	Bi-directional TCL light for before and after curves, green/yellow	IDM 5552 W / 40W - G/Y
			Yellow (-Y)	Bi-directional TCL light for before and after curves, yellow	IDM 5552 W / 40W - Y
	Curve ( C )		Green ( -G )	Bi-directional TCL light for curved sections, green	IDM 5552 C / 40W - G
			Green/Yellow (-G/Y)	Bi-directional TCL light for curved sections, green/yellow	IDM 5552 C / 40W -G/Y
			Yellow (-Y)	Bi-directional TCL light for curved sections, yellow	IDM 5552 C / 40W - Y

Overview of lights					
Light	Optics	Power	Colours	Description	Order code
IDM 5562 (IDM 5562)	Narrow ( N )	2x40 W (2x40W)	Green ( -G )	Bi-directional TCL light for straight sections, green, dual input	IDM 5562 N / 2x40W - G
			Green/Yellow (-G/Y)	Bi-directional TCL light for straight sections, green/yellow, dual input	IDM 5562 N / 2x40W -G/Y
			Yellow (-Y)	Bi-directional TCL light for straight sections, yellow, dual input	IDM 5562 N / 2x40W - Y
	Wide ( W )		Green ( -G )	Bi-directional TCL light for before and after curves, green, dual input	IDM 5562 W / 2x40W - G
			Green/Yellow (-G/Y)	Bi-directional TCL light for before and after curves, green/yellow, dual input	IDM 5562 W / 2x40W - G/ Y
			Yellow (-Y)	Bi-directional TCL light for before and after curves, yellow, dual input	IDM 5562 W / 2x40W - Y
	Curve ( C )		Green ( -G )	Bi-directional TCL light for curved sections, green, dual input	IDM 5562 C / 2x40W - G
			Green/Yellow (-G/Y)	Bi-directional TCL light for curved sections, green/yellow, dual input	IDM 5562 C / 2x40W - G/Y
			Yellow (-Y)	Bi-directional TCL light for curved sections, yellow, dual input	IDM 5562 C / 2x40W - Y
IDM 5751 (IDM 5751)	Narrow ( N )	40 W (/40W)	Green ( -G )	Unidirectional TCL light for straight sections, green	IDM 5751 N / 40W - G
			Yellow (-Y)	Unidirectional TCL light for straight sections, yellow	IDM 5751 N / 40W - Y
			Red (-R)	Unidirectional TCL light for straight sections, red	IDM 5751 N / 40W - R
	Curve, left ( C L )		Green ( -G )	Unidirectional TCL light for curved sections, curve I, green	IDM 5751 CL / 40W - G
			Yellow (-Y)	Unidirectional TCL light for curved sections, curve I, yellow	IDM 5751 CL / 40W - Y
	Curve, right ( C R )		Green ( -G )	Unidirectional TCL light for curved sections, curve II, green	IDM 5751 CR / 40W - G
			Yellow (-Y)	Unidirectional TCL light for curved sections, curve II, yellow	IDM 5751 CR / 40W - Y

For more information, see [www.safegate.com](http://www.safegate.com).

## 2. INSTALLATION

Inset lights are installed in base receptacles that are stationary installed on the field. There are many different installation practices which can be adopted for bases and detailed instructions how to carry out the installation can be found on base manuals. For correct light location, it is recommended to read and comply with the following:

- ICAO: Annex 14 Volume I 5th edition 2009 paragraph 5.3 Lights, which refers to lighting system installation in general.
- All drawings and design plans, for the particular project, to guarantee correct location for each light.

Native base receptacle for IDM 5552, IDM 5562 and IDM 5751 is IDM 6494. It is also possible to install these luminaires on other 8" base receptacles or adapter rings but in these cases compatibility has to be ensured beforehand.

### 2.1 BEFORE YOU START


Make sure you have read and understand Safety Instructions on page 3.

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.

#### 2.1.1 Tools and materials required

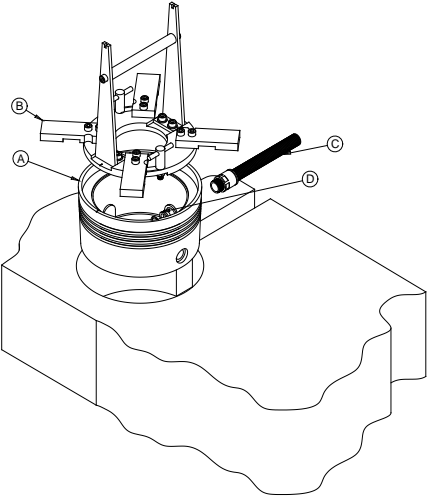
- Alignment device
- Core drilling machine with diamond blades, Ø225 mm
- Lifting hooks
- Torque wrench, socket 17mm
- Saw trench machine with diamond blades (or similar)
- Cable trench sealer
- Two component fixing compound. Nominal volume 1,6 litres with hole dimensions Ø225 mm and depth 130 mm.

#### 2.1.2 Base option

Base option for 8" fittings	Image example
<p>A base receptacle, IDM 6494, is used for the 8" inset lights.</p> <p>The base dimensions are: outer diameter is 218 mm and height is 120 mm.</p>	 <p>FIGURE 2 - BASE FOR 8" INSET LIGHTS</p>



## 2.2 INSTALL A LIGHT IN A BASE (IDM 6494)

Install a light	Image example
<p>(a) Make sure the inner surfaces of the base are clean and dry.</p> <p>(b) Place the o-ring gasket in the groove on the light, to seal the gap between the light and the base.</p> <p>(c) Connect the secondary plug and its receptacle inside the base.</p> <p>(d) Use lifting hooks to lower the light in the base.</p> <p>(e) Make sure the cable rests properly inside the base.</p> <p>(f) Align the light to the base groove, previously set to the desired direction.</p> <p>(g) Loosely fasten the light with two M10x25 bolts by hand.</p> <p><b>Note:</b> <i>Thread elements in bases are locking type and therefore bolts cannot be fully turned down by hand.</i></p> <p>(h) Fasten the bolts using a torque wrench, gradually in sequence, to a torque of 40 Nm.</p> <p>(i) Connect the secondary cable to the isolating transformer in the transformer pit.</p> <p>(j) Connect and test the light is operational.</p>	 <p>FIGURE 3 – LIGHT INSTALLATION</p>

### 3. MAINTENANCE

#### 3.1 BEFORE YOU START



***WARNING! MAKE SURE YOU HAVE READ AND UNDERSTOOD SAFETY INSTRUCTIONS ON PAGE 3.***

##### 3.1.1 Light pressure

Depressurize the light using the valve in the inner cover immediately before maintenance due to:

- The light may contain pressure due to high internal temperature as it has been on for a long period of time immediately before maintenance.
- If the light cover is hot, there is probably pressure inside and the light.
- If the latch mechanism feels abnormally tight this means there is a risk for pressure inside the light.

##### 3.1.2 Handle with care and clean

It is important to handle with care and clean to maximize the light and component lifetime and minimize maintenance.

- Do not touch the glass bulb or the reflecting surface of the lamp with bare hands as this can shorten the expected lifetime of the lamp.
- Use a soft, clean and dry rag when cleaning, handling or maintaining the optical parts of the light.
- When any maintenance procedures are carried out, remove all possible dust and moisture from the inside of the base, inner cover and top cover.
- All sealing mating surfaces must be thoroughly cleaned before reassembling.

### 3.2 REPLACE A LIGHT IN A BASE

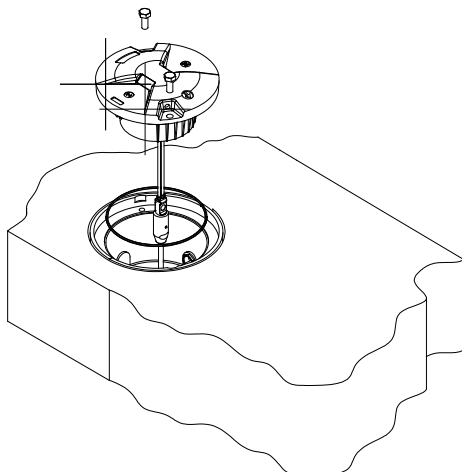
Replace a light	Image examples	
<b>Note:</b> Make sure you have read and understood Safety Instructions on page 3.		
<b>Remove a light from a base</b>		
<ul style="list-style-type: none"><li>(a) Clean the outer surface of the top cover.</li><li>(b) Unfasten the two bolts securing the light.</li><li>(c) Use the lifting hooks to lift the light from the base. Alternatively, if lifting hooks are not available or the light is stuck in the base, use the openings on the side of the top cover to lever the light up from the base.</li><li>(d) Disconnect the secondary cable.</li><li>(e) If the base is to remain empty during maintenance, insert a cover on the base or install a temporary light to seal the base once again.</li><li>(f) In a maintenance workshop, thoroughly clean the outer surfaces of the light before carrying out any maintenance procedures.</li></ul>		
<b>Install a light in a base</b>		
<ul style="list-style-type: none"><li>(g) Make sure the inner surfaces of the base are clean and dry.</li><li>(h) Place the o-ring gasket in the groove on the light, to seal the gap between the light and the base.</li><li>(i) Connect the secondary plug and its receptacle inside the base.</li><li>(j) Use lifting hooks to lower the light in the base.</li><li>(k) Make sure the cable rests properly inside the base.</li><li>(l) Align the light to the base groove, previously set to the desired direction.</li><li>(m) Loosely fasten the light with two M10x25 bolts by hand. <b>Note:</b> Thread elements in bases are locking type and therefore bolts cannot be fully turned down by hand.</li><li>(n) Fasten the bolts using a torque wrench, gradually in sequence, to a torque of 40 Nm.</li><li>(a) Connect the secondary cable to the isolating transformer in the transformer pit.</li><li>(b) Connect and test the light is operational.</li></ul>		

FIGURE 4 – LIGHT INSTALLATION

### 3.3 WORKSHOP MAINTENANCE

It is important to always make sure that the light is depressurized before disassembly for maintenance work.

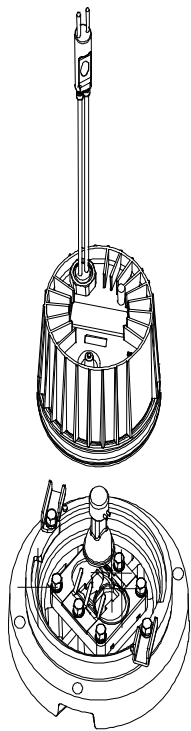
**Note:** Make sure you have read and understood Safety Instructions on page 3.

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

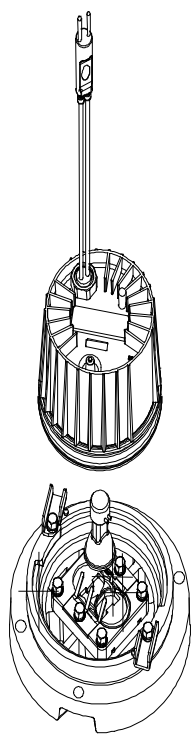
#### 3.3.1 Pressure release

The light includes a valve component according to standard automotive tubeless valve design for common pressure gauges. The valve is loosened to release pressure during maintenance and tightened after assembly for testing, before use in the field.

#### 3.3.2 Disassemble a light cover

Disassemble a light cover	Image examples
<p><b>Note:</b> Make sure you have read and understood Safety Instructions on page 3.</p> <p>(a) Open the inner cover by turning the latches till they stop and pull the housing out.</p> <p><b>Note:</b> It is not necessary nor is it advisable to open the screws securing the latches.</p> <p><b>Note:</b> If the housing is tight a pair of wide slot screwdrivers can be placed to the narrower groove in the inner cover and the housing can then be pressed out.</p>	
 <p>FIGURE 5 – DISASSEMBLING A LIGHT COVER</p>	

### 3.3.3 Assemble a light cover

Assemble a light cover	Image examples
<p>(a) Always replace the O-ring gasket of the inner cover when a light is opened for maintenance.</p> <p>(b) Use proper lubricant for the new O-ring, for example high temperature resistant (minimum 200°C) grease. <b>Note:</b> Do not use copper based grease as it strongly stimulates corrosion.</p> <p>(c) Before replacing the inner cover, apply lubricant to the O-ring and/or top cover sealing mating surface. This eases replacement considerably and extends the lifetime of the O-ring.</p> <p>(d) Close the latches by turning them to meet the edge of the housing.</p>	 <p>FIGURE 6 – ASSEMBLING A LIGHT COVER</p>

### 3.3.4 Seal integrity test

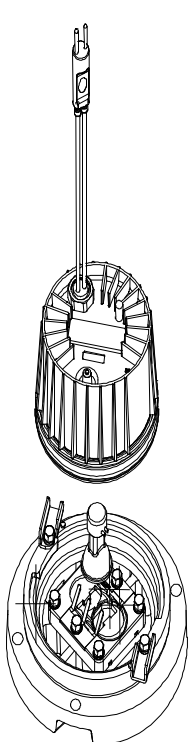
The light can be easily tested for seal integrity, when assembled, by using the valve on the cover. Before applying a pressure gauge to the light, make sure the cover latches are properly closed and the valve is tightened.




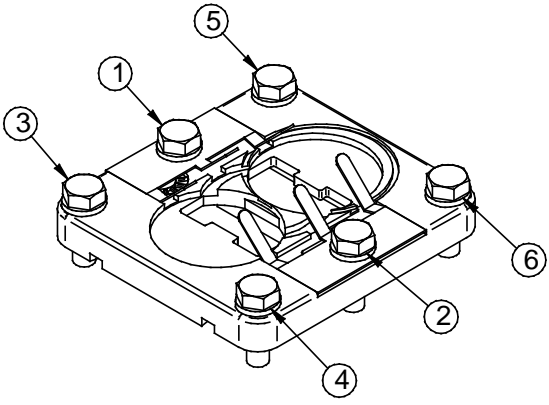
**WARNING! NEVER EXCEED TESTING PRESSURE OF 1.5 BAR. THE LIGHT IS NOT DESIGNED TO WITHSTAND PRESSURES HIGHER THAN 1.5 BAR.**

Fit a pressure gauge to the valve and put the light into a water container with the assembled light completely covered with water. Gradually increase to the maximum testing pressure of 1.5 bar (150 kPa). Keep the light in water for a few minutes and inspect for air bubbles/leaks. If there are leaks, it may be necessary to tighten the cable gland, change the prism gasket or change the O-ring gasket, depending on where the leak appears from.

### 3.3.5 Replace a lamp in a light

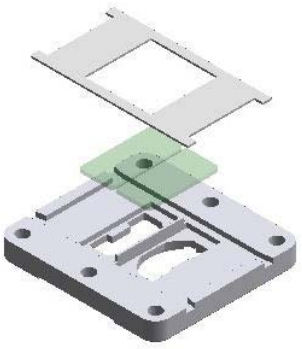
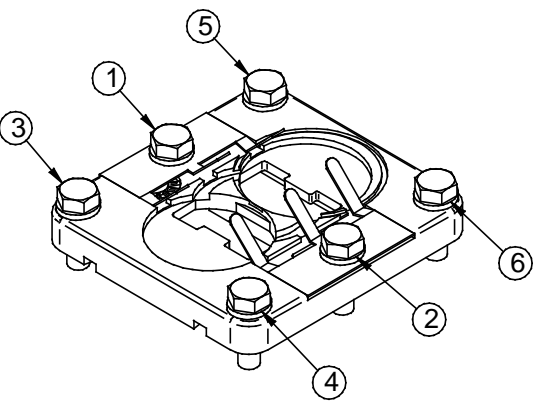
Replace a lamp in a light	Image examples
<p>(a) Disassemble the light, see 3.3.2 Disassemble a light cover on page 10.</p> <p>(b) Disconnect the lamp wires from the terminal strip by pulling them straight out. <b>Note:</b> <i>Do not bend the connectors</i></p> <p>(c) Remove the lamp by slightly lifting the other edge and sliding it sideways away from the fastening plate. Note the correct position of the lamp (middle).</p> <p>(d) Replace the new lamp by sliding it slightly lifted to the correct position (middle). Check that the lamp settles well to the guides in the fastening plate and is not tilted.</p> <p>(e) Connect the lamp wires by pushing them straight to the round male connectors in the terminal strip. <b>Note:</b> <i>It is recommended to replace the O-ring gasket when replacing the lamp.</i></p>	 <p>FIGURE 7 – LAMP REPLACEMENT</p>

### 3.3.6 Remove/insert prisms and a prism gasket

Remove prisms and a prism gasket	Image examples
<p>(a) Disassemble the light, see 3.3.2 Disassemble a light cover on page 10.</p> <p>(b) Unfasten the screws and washers securing the fastening plate to the top cover.</p> <p>(c) Remove the fastening plate. <b>Note:</b> <i>The pad keeps the colour filters in place when the fastening plate is removed. Make sure the colour filters do not fall out of position when removing the fastening plate.</i></p> <p>(d) Remove a prism by pushing it out from the top cover outer surface.</p> <p>(e) Remove the gasket from the top cover. <b>Note:</b> <i>Always replace prism gaskets when re-assembling prisms.</i></p>	 <p>FIGURE 8 – PRISMS AND GASKET REPLACEMENT</p>
Insert prisms and a gasket	
<p>(a) Clean the gasket mating surfaces in the top cover and the new gasket.</p> <p>(b) Apply some silicone grease to the gasket surfaces.</p> <p>(c) Place the gasket and the prism(s) correctly in position.</p> <p>(d) Place the fastening plate, with colour filters and pad still attached, in position.</p> <p>(e) Before tightening the screws, check the colour filter is correctly in position.</p> <p>(f) Loosely tighten the screws by hand and check the components are properly aligned.</p> <p>(g) Tighten the screws (to a torque of 6 Nm) in sequence, as shown in the figure - centre screws followed by diagonal corner screws.</p> <p>(h) Tighten the screws (to a torque of 11 Nm) in sequence, as shown in the figure - centre screws followed by diagonal corner screws.</p>	 <p>FIGURE 9 – FASTENING PLATE TIGHTENING SEQUENCE</p>

### 3.3.7 Replace a colour filter

The colour filter is located in a prism fastening plate, in the top cover.

Replace a colour filter	Image examples
<p>(a) Disassemble the light, see 3.3.2 Disassemble a light cover on page 10.</p> <p>(b) Remove the prism fastening plate, see 3.3.6. <b>Note:</b> <i>If there is no need to replace the prisms do not remove them from top cover.</i></p> <p>(c) Remove the pad holding the colour filters to the fastening plate.</p> <p>(d) Remove the colour filter and the pad.</p> <p>(e) Place the new colour filter in position.</p> <p>(f) Place the pad strip in the grooves on the fastening plate, until the pad clicks into position.</p> <p>(g) Place the fastening plate, with colour filter and pad attached, in position. Makes sure the colour filters are correctly in position and orientation of fastening plate is correct.</p> <p>(h) Loosely tighten the screws by hand and check the components are properly aligned.</p> <p>(i) Tighten the screws (to a torque of 6 Nm) in sequence, as shown in the figure - centre screws followed by diagonal corner screws.</p> <p>(j) Tighten the screws (to a torque of 11 Nm) in sequence, as shown in the figure - centre screws followed by diagonal corner screws.</p>	 <p>FIGURE 10 – COLOUR FILTER REPLACEMENT</p>  <p>FIGURE 11 – FASTENING PLATE TIGHTENING SEQUENCE</p>



### 3.4 TECHNICAL INFORMATION

#### 3.4.1 Storage

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 (warm or cool). Proper storage ensures trouble free replacement procedures. It is strongly recommended not to store any electrical equipment outside.

#### 3.4.2 Daily function check for installed equipment

If the equipment is installed, but not in operation or intended to be used for a longer period of time (more than one week), it is recommended to perform a daily function check to ensure system availability in case of urgent need.

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.

#### 3.4.3 Specification

- ICAO Annex 14 Volume I third edition 2009 paragraph 5.3.15
- Taxiway centre line versions: paragraph 5.3.17
- Stop bars versions 5.3.19
- Intermediate holding position versions 5.3.20
- De-icing/Anti-icing facility exit lights versions 5.3.16.9

#### 3.4.4 Application

Bi- and uni-directional inset lights for:

- Taxiway centre line.
- Stop bars.
- Intermediate holding position lights.
- De-icing/Anti-icing facility exit lights.

### 3.4.5 Technical characteristics

Characteristic	Description
<b>Light dimensions</b>	Protrusion 12 mm Diameter 203 mm
<b>Base (IDM 6494) dimension</b>	Diameter 218 mm Height 120 mm
<b>Weight</b>	2.4 kg (IDM 5552) light 2.3 kg (IDM 6494) base
<b>Ingression Protection</b>	IP67
<b>Materials</b>	Body AISi10Mg Primary Silicone rubber gaskets Stainless steel hardware
<b>Surface treatment</b>	Anodising on cast alloy parts
<b>Cables and connectors</b>	Plugs: FAA L-823 Style 6 Receptacles: FAA L-823 Style 12 Secondary cable: FAA 150/5345-70
<b>Light sources</b>	<i>IDM 5552 &amp; IDM 5751:</i> 40W, 6,6A, Ø35 mm dichroic halogen lamp with 130 mm wires and Ø4 mm round female connectors. Average lifetime 1500 hours at rated current. <i>IDM5562:</i> 2 x40W, 6,6A, Ø35 mm dichroic halogen lamp with 130 mm wires and Ø4 mm round female connectors. Average lifetime 1500 hours at rated current.
<b>Packing</b>	Dimensions: 220x220x140 mm Weight: 2.5 kg
<b>Accessories</b>	Base Receptacle (IDM 6494) Alignment device (IDM 6092) Lifting hooks

For more information, contact Safegate Group or see [www.safegate.com](http://www.safegate.com).

### 3.5 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 Safegate Group is committed to minimal disturbance for airport operations.

Safegate Group Support	
<p>Safegate Group knows that our equipment is used in one of the busiest industries in the world, where down-time costs money and creates delays for airlines and their passengers. As one of the world's leading suppliers of airport systems, Safegate Group is committed to ensuring that our customers are able to get the most out of your equipment, regardless of the location or the time of day. For this reason, Safegate Group has established the Safegate Group Support service.</p> <p>Safegate Group Support is a unique service provided by Safegate Group to our customers, free of charge during the warranty period or as a service contract. Any time of day, any day of the year, a Safegate Group engineer is on standby to answer questions and assist with any problems that may arise. Qualified technical assistance is just a phone call or an e-mail away, 24-7 worldwide.</p> <p>✉ <a href="mailto:support@safegate.com">support@safegate.com</a></p> <p>☎ +46 40 699 1740</p>	 <p>The graphic on the right consists of two parts. The top part is a red square with the white text '24·7'. The bottom part is a photograph of a person from behind, wearing a bright yellow-green high-visibility jacket with the word 'SAFEGATE' printed in red on the back. The person is standing in front of some dark, industrial-looking structures.</p>

#### 3.5.1 Safegate Group Website

The Safegate Group Website, [www.safegate.com](http://www.safegate.com), offers information regarding our airport solutions, products, company, news, links, downloads, references, contacts and more.

**Note:** There is also a **Client/Partner login** area for the latest information and updates, if available.

### 3.6 RE-CYCLING

#### 3.6.1 Local Authority Re-cycling

The disposal of Safegate Group 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.

#### 3.6.2 Safegate Group Re-cycling

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

Safegate Group 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 labelled as follows:

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

Safegate Group 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.

**Note:** For more information, see [www.safegate.com](http://www.safegate.com), or contact Safegate Group Support via email at [support@safegate.com](mailto:support@safegate.com) or phone +46 40 699 1740.

### 3.7 SPARE PARTS

Spare parts are available for Airfield Lighting. For more information see the Spare Parts List document.

**Note:** Contact Safegate Group for assistance with ordering spare parts.

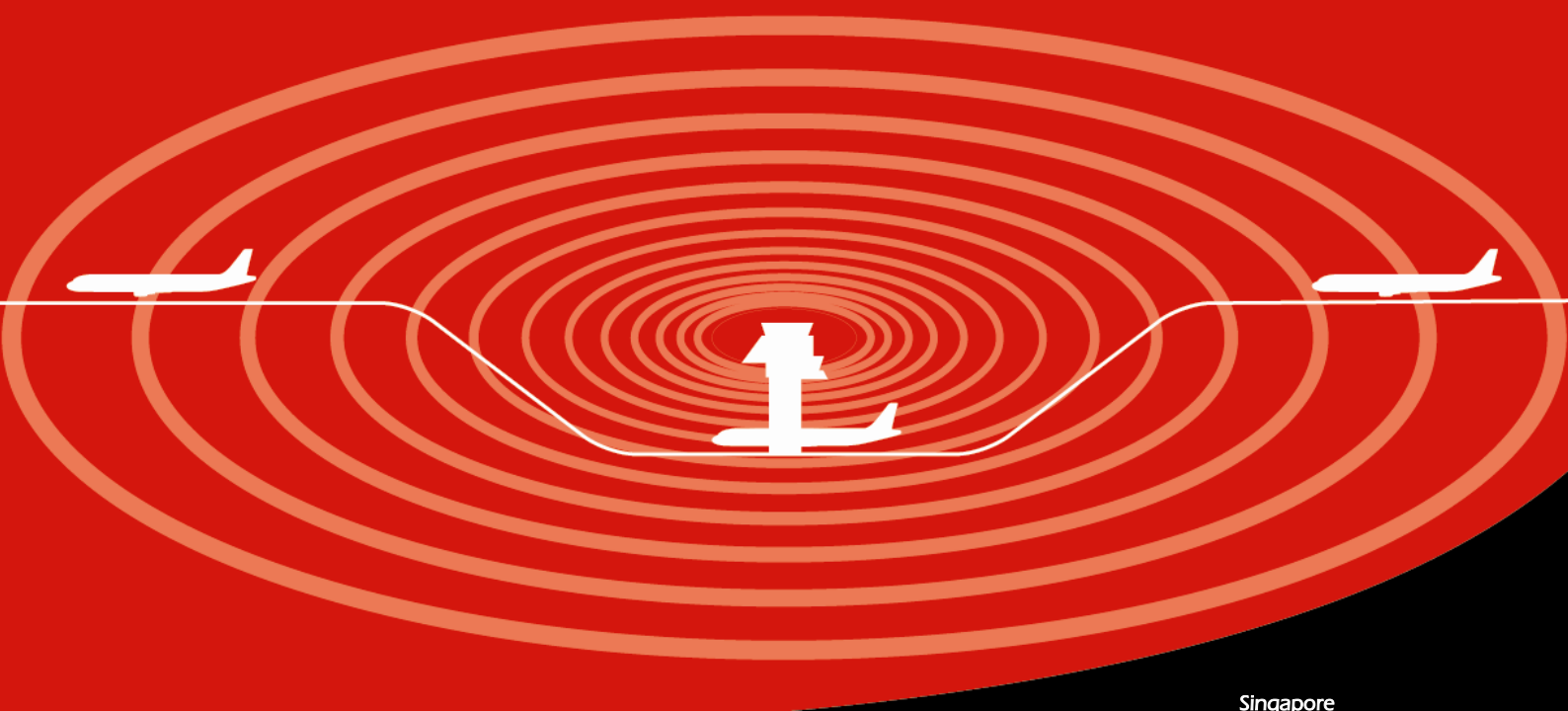


# Check in to the future

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**  
Airfield Lighting

**IDMAN**

**SAFEGATE**  
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.

For more contact information and details:  
[www.safegate.com](http://www.safegate.com)