



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:  issue No.:

Status:

Date of Issue: **2011-06-07** Page 1 of 3

Applicant: **Eflare Corporation Pty Ltd**  
Level 1, 222 St Kilda Road  
St Kilda VIC 3182  
**Australia**

Electrical Apparatus: **Eflare Compact Warning Beacon 350 Series, 500/600 Series, 700 Series, 800 Series, 800 BAST Series and 800 Aviation Series**  
Optional accessory:

Type of Protection: **Intrinsic Safety 'ic'**

Marking: **Eflare Corporation Pty Ltd**  
**Eflare Compact Warning Beacon 350 Series, or 500/600 Series, or 700 Series, or 800 Series, or 800 BAST Series, or 800 Aviation Series**  
**Ex ic IIC T4**  
**IECEX TSA 11.0023**  
S/N: \_\_\_\_\_

Approved for issue on behalf of the IECEx  
Certification Body:

Ujen Singh

Position:

Quality and Certification Manager

Signature:  
(for printed version)

Date:

07 JUNE 2011

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the **Official IECEx Website**.

Certificate issued by:

**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753  
Australia





# IECEX Certificate of Conformity

Certificate No.: IECEx TSA 11.0023

Date of Issue: 2011-06-07

Issue No.: 0

Page 2 of 3

Manufacturer: **Verifan Metals Plastics Ltd**  
2 Hong Qian 2nd Road, ShangNam Industrial Zone  
Sha Jing Bao An, Shenzhen  
China

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 4.0  
**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

**AU/TSA/ExTR10.0028/01**

Quality Assessment Report:

**AU/TSA/QAR11.0001/00**



# IECEX Certificate of Conformity

Certificate No.: IECEx TSA 11.0023

Date of Issue: 2011-06-07

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Eflare Compact Warning Beacon is a battery operated beacon device with options for different colours and whether the beacon flashes or is continuously lit.

The apparatus is fully self contained in a cylindrical moulded yellow plastic enclosure, the batteries are removed from the bottom by a screw on cap, the beacon is turned on and off by rotating the top clear lens moulding that actuates a switch controlling power to the device.

Sealing is achieved by O rings installed in the main body moulding for the bottom cap and the top rotating clear lens. The Eflare Compact Warning Beacon may also optionally be inserted into a moulded rubber mounting base that holds the Beacon in an upright position on a level surface.

More details, please refer to the Annexe of the certificate.

### CONDITIONS OF CERTIFICATION: NO

Certification drawings refer to Annexe of the certificate.



# IECEX Certificate of Conformity Annexe

<b>Annexe for Certificate No.:</b>	<b>IECEX TSA 11.0023</b>	<b>Issue No.:</b>	<b>0</b>
------------------------------------	--------------------------	-------------------	----------

### Description of the equipment:

The Eflare Compact Warning Beacon is a battery operated beacon device with options for different colours and whether the beacon flashes or is continuously lit.

The apparatus is fully self contained in a cylindrical moulded yellow plastic enclosure, the batteries are removed from the bottom by a screw on cap, the beacon is turned on and off by rotating the top clear lens moulding that actuates a switch controlling power to the device. Sealing is achieved by O rings installed in the main body moulding for the bottom cap and the top rotating clear lens.

The Eflare Compact Warning Beacon may also optionally be inserted into a moulded rubber mounting base that holds the Beacon in an upright position on a level surface.

The following models have been covered in the certificate:

### 350 Series Beacons

LED Colours Available: Red or Amber

Unit Prefixed with Letters EF.  
Units are single colour flash.



### 500/600 Series Beacons

LED Colours Available: Red, Amber, Blue, Green, White in either single or combination

Prefix Notes;

1. All beacons are manufactured as standard with HZ as a prefix e.g. HZ510R or EF as a prefix e.g. EF512A.
2. Units with and LS prefix have an additional photocell P/N SFH603P fitted at position PD2 e.g. LS510R
3. Units with a TF prefix have an additional 3 x Torch LED P/N TKP17 fitted in position LD14-LD16 e.g. TF510R
4. Units with an AV prefix have an additional 3 x Torch LED P/N TKP17 fitted in position LD14-LD16 e.g. AV610W but are programmed to either all flash (inc torch LED's), all steady on (inc torch LED's) or torch only.  
Note: Connections are not used.



Part No Function Definitions;

1. 510 = Flash Only – 8 LED
2. 512 = Flash Only – 16 LED
3. 513 = 180 or 360 deg Flash – 8 LED
4. 520 = Steady On – 8 LED
5. 521 = Steady On One Colour OR Second Colour – 16 LED
6. 522 = Steady On – 16 LED

Certificate issued by:



**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753 Australia



# IECEX Certificate of Conformity Annexe

<b>Annexe for Certificate No.:</b>	<b>IECEX TSA 11.0023</b>	<b>Issue No.:</b>	<b>0</b>
------------------------------------	--------------------------	-------------------	----------

7. 530 = Dual Flash Beacon – 8 LED
8. 532 = Dual Flash Beacon – 16 LED
9. 550 = Steady on Different Colours Either Side – 16 LED
10. 610 = Flash or Steady On – 8 LED
11. 612 = Flash or Steady On – 16 LED
12. Letter(s) at the end denotes LED colour

## 700 Series Beacons

Led Colours Available: Red, Amber, Blue, Green, White in either single or combination

### Prefix Notes;

1. All beacons are manufactured as standard with AT as a prefix e.g. AT700R
2. Units with and LS prefix have an additional photocell P/N SFH603P fitted at position PD2... e.g. LS700R
3. Units with a TF prefix have an additional 3 x Torch LED P/N TKP17 fitted in position LD14 – LD16 e.g. TF700R

### Part No Function Definitions;

1. 700 = Flash or Steady On
2. 710 = Flash Only
3. 713 = 180 or 360 deg Flash
4. 720 = Steady On Only
5. 723 = 180 or 360 deg Steady On
6. 730 = Dual Flash Beacon
7. Letter(s) at the end denotes LED colour

## 800 Series beacons

Led Colours Available: Red, Amber, Blue, Green, White in either single or combination

### Prefix Notes;

1. All beacons are manufactured as standard with AT as a prefix e.g. AT800R
2. Units with and LS prefix have an additional photocell P/N SFH603P fitted at position PD2 e.g. LS800R
3. Units with a TF prefix have an additional 3 x Torch LED P/N TKP17L51WC2 fitted in position LD14-LD16 e.g. TF800R

### Part No Function Definitions;

1. 800 = Flash or Steady On
2. 810 = Flash Only
3. 811 = Flash One Colour OR Second Colour
4. 813 = 180 or 360 deg Flash
5. 814 = Flash With Choice of 3 Colours
6. 815 = Flash – Full or Half Bright



### Certificate issued by:



**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753 Australia





## IECEX Certificate of Conformity Annexe

<b>Annexe for Certificate No.:</b>	<b>IECEX TSA 11.0023</b>	<b>Issue No.:</b>	<b>0</b>
------------------------------------	--------------------------	-------------------	----------

7. 820 = Steady On Only
8. 821 = Steady On One Colour OR Second Colour
9. 823 = 180 or 360 deg Steady On
10. 824 = Steady On With Choice of 3 Colours
11. 825 = Steady On – Full or Half Bright
12. 830 = Dual Flash Beacon
13. 850 = Steady on Different Colours Either Side
14. Letter(s) at the end denotes LED colour

### EN800 BAsT Series Beacons

LED Colours Available: Red or Amber

Unit Prefixed with Letters EN.

Units are single colour and can be flash, steady on or torch (or combination)

### 800 Aviation Series Beacons

Led Colours Available: Red, Amber, Blue, Green, White in either single or combination

Unit Prefixed with Letters AV.

Units are single colour and can be flash, steady on or torch (or combination)

### Drawing list pertaining to Issue 0 of this Certificate:

Document No.	Sheets	Document Title	Issue	Date
SCHP04 350 01JUN10	1	Schematic EF350	04	2010/06/01
SCHP03 500600 01JUN10	1	Schematic EF500 600	P03	2010/06/01
SCHD04 700 01JUN10	1	Schematic EF700	04	2010/06/01
SCHD03 800 01JUN10	1	Schematic EF800	03	2010/06/01
SCHD02 800AVIATION 01JUN10	1	Schematic EF800 Aviation	02	2010/06/01
SCHD05 800BAsT 01JUN10	1	Schematic EF800 BAsT	05	2010/06/01
PCB01 350 01JUN10.PDF	4	EF350 PCB	01	2010/06/01
PCB07 500600 10JUN10.PDF	4	EF500 / EF600 PCB	07	2010/06/10
PCB02 700 11JUN10.PDF	4	EF700 PCB	02	2010/06/11
PCB04 800 23JUN10.PDF	4	EF800 PCB	04	2010/06/23
PCBD05 800AVIATION 24JUN10.PDF	4	EF800 Aviation PCB	05	2010/06/24
PCB02 800BAsT 11JUN10.PDF	4	EF800 BAsT PCB	02	2010/06/11
-	4	Production Bill of Materials – 350 Series Units	P03	2009/12/22
-	8	Production Bill of Materials – 500 & 600 Series Units	P06	2010/03/11
-	9	Development Bill of Materials for 700 Series Units	D05	2010/03/11

Certificate issued by:



**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753 Australia



## IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 11.0023	Issue No.:	0
-----------------------------	-------------------	------------	---

Document No.	Sheets	Document Title	Issue	Date
-	13	Development Bill of Materials – 800 Series Units	D03	2010/03/15
-	3	Development Bill of Materials 800Aviation Series	D04	2010/03/11
-	3	Development Bill of Materials – EN800 BAsT	D06	2010/03/11
EEFP001A-0	1	EF350 Explode Drawing	A	-
EEFP005A-0	2	EF500 Explode Drawing	A	-
EEFP007A-0	2	EF700 Explode Drawing	A	-
EEFP008A-0	2	EF800 Explode Drawing	A	-
EEFL001A-0	1	Eflare Warning Label	A	2011/05/24

Certificate issued by:

	<b>TestSafe Australia</b> 919 Londonderry Road Londonderry NSW 2753 Australia
---	---