



TYPE EXAMINATION CERTIFICATE

**Component Intended for use on/in an Equipment
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

- 3 Type Examination Certificate Number: **Baseefa10ATEX0069U**
- 4 Component: **Types PCA, PXA and PBA Igniters**
- 5 Manufacturer: **Electronic Controls and Discharge Systems (Pty) Ltd.**
- 6 Address: **Plot No. 16A, 1st Floor, Garment Complex
Cochin Special Economic Zone, Kakkanan
Cochin 682030, Kerala State, India**
- 7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended to form part of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.
- The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR10.0056/00**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN60079-0: 2009 **EN60079-15: 2005**
- except in respect of those requirements listed at item 18 of the Schedule.
- 10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment. This partial certification may be used as a basis for certification of an equipment.
- 11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified components and not to specific components subsequently manufactured.
- 12 The marking of the component shall include the following :

Ex II 3G Ex nA nC IIC Gc

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **5116**

Project File No. **08/0274**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

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Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above..



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Schedule

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Certificate Number Baseefa10ATEX0069U

15 Description of Component

The Type PXA, PCA and PBA Range of Ignitors are designed for use with high pressure sodium lamps (HPS), or metal halide lamps (MH), in circuits with rated voltages from 220V to 240V at 50/60Hz or 277V at 60Hz.

Each ignitor comprises an electronic circuit and ferrite cored pulse transformer, encapsulated within a aluminium case. Circuit connections are via a 3-way terminal block fitted with pressure plates. The aluminium case earth connection is via a base mounted stud.

None of the ignitors subject the circuit ballast to the peak pulse voltage.

The Type PXA units are not fitted with cut-out devices. The PCA units are fitted with cut-out devices; however, these devices are considered as operating outside the parameters of IEC60079-15: 2005.

The range comprises the following ignitors:

| Type | Lamp | Wattage (W) | Voltage (V) | Frequency (Hz) | Max Ignitor Current (A) | Max Peak Pulse Voltage (kV) | Tc (°C) |
|------------|-----------|-------------------|-------------------|----------------|-------------------------|-----------------------------|---------|
| PXA 070255 | HPS MH | 35/70 | 220/240 +/-10% | 50/60 | 2 | 2.9 | 90 |
| PXA 070276 | HPS MH | 35/70 | 277 +/-10% | 60 | 2 | 2.9 | |
| PCA 070255 | HPS MH | 35/70 | 220/240 +/-10% | 50/60 | 2 | 2.9 | 105 |
| PCA 070276 | HPS MH | 35/70 | 277 +/-10% | 60 | 2 | 2.9 | |
| PXA 100255 | HPS MH | 100/400 35/450 | 220/240 +/-10% | 50/60 | 5 | 4.9 | |
| PXA 100276 | HPS MH | 100/400 35/450 | 277 +/-10% | 60 | 5 | 4.9 | |
| PCA 100255 | HPS MH | 100/400 35/450 | 220/240 +/-10% | 50/60 | 5 | 4.9 | |
| PCA 100276 | HPS MH | 100/400 35/450 | 277 +/-10% | 60 | 5 | 4.9 | |
| PXA 400255 | HPS MH | 100/400 35/450 | 220/240 +/-10% | 50/60 | 5 | 4.9 | |
| PXA 400276 | HPS MH | 100/400 35/450 | 277 +/-10% | 60 | 5 | 4.9 | |



| Type | Lamp | Wattage (W) | Voltage (V) | Frequency (Hz) | Max Ignitor Current (A) | Max Peak Pulse Voltage (kV) | Tc (°C) |
|-----------------|------|-------------|-------------------|----------------|-------------------------|-----------------------------|---------|
| PCA 400255 | HPS | 100/400 | 220/240 +/-10% | 50/60 | 5 | 4.9 | |
| | MH | 35/450 | | | | | |
| PCA 400276 | HPS | 100/400 | 277 +/-10% | 60 | 5 | 4.9 | |
| | MH | 35/450 | | | | | |
| PBA 403255D1 | HPS | 150/400 | 220/270 +/-10% | 50/60 | 5 | 4.9 | |
| | MH | 250/450 | | | | | |

16 Report Number

GB/BAS/ExTR10.0056/00

17 Schedule of Limitations

- 1 The ignitors shall be installed in an enclosure providing minimum ingress protection IP54 and protected from impact.
- 2 The ignitors shall be installed so that the maximum case temperature of 90°C for the PXA070255 / PXA070276 units and 105°C for all other units is not exceeded. The minimum ambient temperature is -40°C.
- 3 The mounting stud shall be connected to an earth.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

| Number | Sheet | Issue | Date | Description |
|--------|-------|-------|----------|--------------------------------|
| ATEX11 | 1 | 2 | 05.03.09 | Parts List PXA 070255 |
| ATEX11 | 2 | 2 | 05.03.09 | General Arrangement PXA 070255 |
| ATEX12 | 1 | 2 | 05.03.09 | Parts List PXA 070276 |
| ATEX12 | 2 | 2 | 05.03.09 | General Arrangement PXA 070276 |
| ATEX13 | 1 | 3 | 05.03.09 | Parts List PCA 070255 |
| ATEX13 | 2 | 3 | 05.03.09 | Parts List PCA 070255 |
| ATEX13 | 3 | 3 | 05.03.09 | General Arrangement PCA 070255 |
| ATEX14 | 1 | 3 | 05.03.09 | Parts List PCA 070276 |
| ATEX14 | 2 | 3 | 05.03.09 | Parts List PCA 070276 |
| ATEX14 | 3 | 3 | 05.03.09 | General Arrangement PCA 070276 |
| ATEX15 | 1 | 2 | 05.03.09 | Parts List PXA 100255 |
| ATEX15 | 2 | 2 | 05.03.09 | General Arrangement PXA 100255 |
| ATEX16 | 1 | 2 | 05.03.09 | Parts List PXA 100276 |
| ATEX16 | 2 | 2 | 05.03.09 | General Arrangement PXA 100276 |
| ATEX17 | 1 | 3 | 05.03.09 | Parts List PCA 100255 |



| Number | Sheet | Issue | Date | Description |
|--------|-------|-------|----------|----------------------------------|
| ATEX17 | 2 | 3 | 05.03.09 | Parts List PCA 100255 |
| ATEX17 | 3 | 3 | 05.03.09 | General Arrangement PCA 100255 |
| ATEX18 | 1 | 3 | 05.03.09 | Parts List PCA 100276 |
| ATEX18 | 2 | 3 | 05.03.09 | Parts List PCA 100276 |
| ATEX18 | 3 | 3 | 05.03.09 | General Arrangement PCA 100276 |
| ATEX19 | 1 | 2 | 05.03.09 | Parts List PXA 400255 |
| ATEX19 | 2 | 2 | 05.03.09 | General Arrangement PXA 400255 |
| ATEX20 | 1 | 2 | 05.03.09 | Parts List PXA 400276 |
| ATEX20 | 2 | 2 | 05.03.09 | General Arrangement PXA 400276 |
| ATEX21 | 1 | 3 | 05.03.09 | Parts List PCA 400255 |
| ATEX21 | 2 | 3 | 05.03.09 | Parts List PCA 400255 |
| ATEX21 | 3 | 3 | 05.03.09 | General Arrangement PCA 400255 |
| ATEX22 | 1 | 3 | 05.03.09 | Parts List PCA 400276 |
| ATEX22 | 2 | 3 | 05.03.09 | Parts List PCA 400276 |
| ATEX22 | 3 | 3 | 05.03.09 | General Arrangement PCA 400276 |
| ATEX29 | 1 | 2 | 05.03.09 | Parts List PBA 403255D1 |
| ATEX29 | 2 | 2 | 05.03.09 | General Arrangement PBA 403255D1 |

These drawings are common to and held with IECEx BAS 10.0029U.