

## EU - TYPE EXAMINATION CERTIFICATE

### Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU - Type Examination Certificate Number: **BAS02ATEX1311 – Issue 4**

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **I.S. LED Cluster Type DA170-XX**

Manufacturer: **Eaton Electric Limited**

Address: **Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL**

This re-issued certificate extends EC - Type Examination Certificate No. BAS02ATEX1311 to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. SGS Baseefa, Notified Body Number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, is responsible only for the additional work relating to this re-issued certificate and any other supplementary certificate it has issued.

The examination and test results are recorded in confidential Report No. None

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0: 2012 + A11: 2013 EN 60079-11: 2012**

except in respect of those requirements listed at item 18 of the Schedule.

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following :

**Ex II 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +40°C / +60°C)**

SGS Baseefa Customer Reference No. **0703**

Project File No. **16/0371**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number BAS02ATEX1311 – Issue 4**

15 **Description of Product**

I.S. LED Cluster Type DA 170-XX is designed as a panel mounted indicator and contains a number of coloured LEDs mounted on a printed circuit board (PCB) with associated electronic components. The PCB is housed in a small plastic enclosure with customer terminals at the rear and an appropriately coloured lens within either a plastic or metallic bezel at the front.

The DA 170-XX LED Clusters are fitted with up to five LEDs connected either in series or in parallel and may contain optional current regulator, adjustable voltage regulator, bridge circuit, voltage suppressor and alternative types of LED.

The XX in the type number denotes the colour of the LED Cluster (R – red, O – orange, etc)

The enclosure provides a degree of protection of IP20 and the exposed surface of the lens is treated with an antistatic coating.

**Ex ia IIC T4 Ga**  
 $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

$U_i = 40\text{Vdc}$   
 $P_i = 1.3\text{W}$   
 $C_i = 0$   
 $L_i = 0$

**Ex ia IIC T4 Ga**  
 $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

$U_i = 40\text{Vdc}$   
 $P_i = 1.2\text{W}$   
 $C_i = 0$   
 $L_i = 0$

16 **Report Number**

None

17 **Specific Conditions of Use**

None

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues.
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 **Drawings and Documents**

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
CE5279-4	1 of 1	6	2.17	Lab Detail / DA170 LED Cluster

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
CE5278	1 of 1	3	27/08/02	General Arrangement for DA170 LED Cluster
CE5282	1 of 1	2	27/08/02	DA-170 LED Cluster Circuit Diagram
CE5281	1 of 1	1	20/3/02	Component & Tracking Layout for DA170 LED Cluster

**20 Certificate History**

<b>Certificate No.</b>	<b>Date</b>	<b>Comments</b>
BAS02ATEX1311	9 September 2002	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997 + Amds 1 & 2, EN 50020:1994 and EN 50284:1999 is documented in Test Report No. 02(C)0337.
BAS02ATEX1311/1	25 September 2003	To permit the use of two alternative anti-static coatings – DESCO Statguard and Staticide Ultra #4600.
BAS02ATEX1311/2	15 August 2006	To permit minor label changes that do not affect the assessment and to permit the use of an alternative name, DA 170-XX.
BAS02ATEX1311 Issue 3	6 June 2011	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0:2009 & EN 60079-11:2007 including the revision of the equipment marking in accordance with these standards.
BAS02ATEX1311 Issue 4	20 November 2017	<p>To confirm the current design meets the requirements of EN 60079-0: 2012 + A11: 2013 &amp; EN 60079-11: 2012.</p> <p>A change of certificate holder was undertaken by change registration on 03 July 2014, from the name of RTK Instruments Ltd, St James Business Park, Knaresborough, North Yorkshire, HG5 8PJ to Measurement Technology Limited, Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL.</p> <p>This issue of the certificate records a manufacturer name change from 'Measurement Technology Limited' to 'Eaton Electric Limited'.</p> <p>Products DA171 and DA172 have removed from certificate. As a result of this, the equipment title and certificate schedule have been revised to remove details of these models.</p> <p>Project 16/0371.</p>
For drawings applicable to each issue, see original of that issue.		