



EC - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 94/9/EC

3 EC - Type Examination Certificate Number: Baseefa08ATEX0102X

4 Equipment or Protective System: VANGUARD VL34 Heldeck & VL35 Non-Emergency and Emergency LED Bulkhead Luminaires

5 Manufacturer: Victor Lighting
6 Address: 388 Hillington Road, Glasgow, G52 4BL

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. GB/BAS/EXTR08.0080/00

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

IEC60079-0: 2007 EN60079-7: 2007 EN60079-11: 2007 EN60079-18: 2004 EN61241-1: 2004

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

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

 II 2 GD Ex e ib mb HC T4 Gb Ex tb IIC CT100°C Db IP66/67 Tamb (see schedule)

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

Baseefa Customer Reference No. 5421

Project File No. 08/0002

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.

A handwritten signature in blue ink, appearing to read "R S Sinclair".

Baseefa

R S SINCLAIR

Rockhead Business Park, Staden Lane,

Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail info@baseefa.com web site www.baseefa.com

Baseefa is a trading name of Baseefa Ltd

Registered in England/No. 4305578. Registered address as above.

DIRECTOR

On behalf of

Baseefa



13

Schedule

14

Certificate Number Baseefa08ATEX0102X

15

Description of Equipment or Protective System

The VL34 Heideck and VL35 LED Non-Emergency and Emergency Bulkhead luminaire are rated for 110V-254Vac/dc / 50-60Hz / 8W. The bulkhead luminaires comprises of an enclosure made up of a die cast or shell moulded aluminium or gunmetal base and clamp ring with a raised glass diffuser fitted with internal control gear. The diffuser is fixed in place by the clamp ring which is fixed with four screws to the base. Ingress protection is provided by solid silicone or solid EPDM rubber gasket clamped between the base and glass diffuser which achieves IP66/67.

The internal components comprise of a light emitting diode array, a battery assembly, an encapsulated LED driver and terminal blocks and wiring.

The LED array consists of 8x1W LEDs mounted to a metal clad printed circuit board which in turn is insulated by a ceramic layer between circuit tracks and metal cladding. The board is mounted to a metal heat sink plate and thermal connection is made via heat transfer compound, the metal heat sink plate is fixed via brackets to the base. The metal heat sink plate design is flat on the VL35 and has a step to raise the LED array on the VL34. The encapsulated LED maintained driver is available in emergency or non-emergency versions. The emergency version includes the additional option to connect the battery assembly.

The battery assembly which is rated 4Ah 4.8V is made up of four NiCd4 cells connected in series and is held in place within the enclosure via either 2 fixings or purpose straps. The battery pack has the option of fitting an 8V 10W resistance heating device and a thermostat. The battery pack is only fitted in the emergency version of the VL34 and VL35.

The terminal blocks which are used for factory and field connections within the enclosure are listed below, each is covered by its own component certificate(s).

Manufacturer	Type	Certificates Nos.	Temperature Range
Weidmuller	MK 3/8	IECEX SIR 05.0036U / SIRA01ATEX3248U	-50° C to +130° C
WAGO	262-230	IECEX PTB 04.0004U / PTB98ATEX3125U	-55° C to +85° C

The enclosure has 3x M20 entries into the enclosure via the base, two at one end and one at the other. The luminaires are supplied with two component certified blanking elements. The blanking elements permitted to be used within this product are shown below.

Manufacturer	Type	Certificates Nos.	Temperature Range
Hawke	375	IECEX BAS 06.0056U / Baseefa06ATEX0236U	-60° C to +75° C
	387	IECEX BAS 06.0029U / Baseefa06ATEX0118U	-60° C to +80° C (Nitrile o-ring) -60° C to +160° C (Silicone o-ring)



* The ambient temperature range for the luminaires is shown below.

Version of Luminaire	Ambient temperature range	
Non-emergency version of the VL34 and VL35	-45° C to +55° C	
Emergency version of the VL34 and VL35	Without optional heating device fitted -20° C to +55° C	With optional heating device fitted -45° C to +55° C

The luminaire is fitted with an M5 internal and M8 external earth connection.

Variations:

- 0.1 - a guard may be fitted to the clamp ring to offer additional protection to the glass diffuser.
- 0.2 - Both versions of the LED driver have the option of connecting a resistance heating device which is wrapped around the battery assembly and a thermostat. Temperature control of the heater and batteries is via the thermostat placed on the battery pack. The heater only operates if the battery assembly temperature drops below +5° C and the heater is de-energised when the temperature returns to above +5° C.
- 0.3 - The non-emergency version of the VL34 and VL35 do not have the battery pack fitted. In this case the intrinsic safety protection marking 'ib' is removed from the label detail.

16 Report Number
GB/BAS/EXTR08.0080/00

17 Special Conditions for Safe Use

1. All unused cable entries shall be fitted with a blanking element. The permitted blanking elements for the VL34 and VL35 luminaires are listed on this certificate above.
2. The end user must ensure that a minimum ingress protection of IP66/67 is achieved at each entry to the enclosure by use of a suitable certified blanking element or cable entry device.

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
H010966 *	1of3	2	31/08/2007	VANGUARD VL34 Heideck
H010966 *	2of3	2	31/08/2007	VANGUARD VL34 Heideck
H010966 *	3of3	2	31/08/2007	VANGUARD VL35

* These drawings are common to, and held on, the Technical File associated with IECEx BAS 08.0038.