



1 **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: **Baseefa11ATEX0106X**

4 Equipment or Protective System: **IS2000 MK1 Intrinsically Safe PIR Movement Detector**

5 Manufacturer: **Voltek Automation Ltd.**

6 Address: **Unit 39C Churchill Way, Lomeshaye Industrial Estate, Nelson,  
Lancashire, BB9 6RT**

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/ExTR11.0101/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2006 EN 60079-0:2009 EN 60079-11:2007**

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 :

**Ex II 1 G Ex ia IIC T5 Ga**

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

Baseefa Customer Reference No. **6745**

Project File No. **11/0186**

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.

**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

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

**R S SINCLAIR**

**DIRECTOR**  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa11ATEX0106X

### 15 Description of Equipment or Protective System

An IS2000 MK1 Intrinsically Safe PIR Detector is designed for sensing the presence of people, by detecting the infrared radiation emitted by their body heat, and to provide an output signal for remote monitoring. It comprises a pyro-electric sensor, and other electronic components mounted on a printed circuit board (PCB). The PCB assembly is encapsulated inside a substantial cast metal enclosure and is fitted behind the front lid of the cast housing. The pyro-electric sensor is not covered by the encapsulant, but is protected by a plastic membrane cover.

The PCB Assembly is wired to terminals that are mounted on the back of the lid. External connections are made to these terminals through a gland in the main housing.

IS2000 MK1 Input Parameters:

$U_i = 15V$        $C_i = 0$

$I_i = 0.3A$        $L_i = 0$

$P_i = 1.125W$

### 16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0101/00

### 17 Special Conditions for Safe Use

1. This enclosure is made of an aluminium alloy and must be protected against impact or abrasion if located in an area classified Zone 0.
2. The surface resistivity of the lens is greater than  $1G\Omega$ . To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.

### 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
ISGA10	1	5	13/04/11	General Assembly Drawing
ISGA11A	1	2	28/11/93	General Termination / Label Arrangement
ISGA12	1	3	13/04/11	General Enclosure Label Drawing
ISGA13	1	1	21/02/94	Label Position and Specification
VT60CCTG	1	4	13/04/11	Detector Circuit General Arrangement
VT60CLAG	1	C	10/02/94	General Component Layout Side A
VT60TLAG	1	C	10/02/94	General PCB Track Layout Side A
VT60CLBG	1	C	10/02/94	General Component Layout Side B
VT60TLBG	1	D	13/04/11	General PCB Track Layout Side B