



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

Certificate No.: IECEx BAS 11.0002 issue No.:2

Status: **Current**

Date of Issue: 2013-02-01

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Certificate history:

Issue No. 2 (2013-2-1)

Issue No. 1 (2012-10-

19)

Issue No. 0 (2011-3-14)

Applicant: **Orange Instruments Limited**
Lower Farm Road
Moulton Park
Northampton
NN3 6XF
United Kingdom

Electrical Apparatus: **Type EXM01 Motion sensor and Light Controller**
Optional accessory:

Type of Protection: **Flameproof and Dust protected**

Marking: **Ex d IIC T6 Ta -40°C to + 54°C Gb**
Ex tb IIIC T85°C Ta -40°C to + 54°C Db IP66

*Approved for issue on behalf of the IECEx
Certification Body:*

R S Sinclair

Position:

General Manager

*Signature:
(for printed version)*


1-2-13

Date:

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](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **Orange Instruments Limited**
Lower Farm Road
Moulton Park
Northampton
NN3 6XF
United Kingdom

Additional 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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

*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:
GB/BAS/ExTR11.0006/00

GB/BAS/ExTR12.0267/00

GB/BAS/ExTR13.0013/00

Quality Assessment Report:

GB/BAS/QAR11.0004/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type EXM01 Motion Sensor and Light Controller comprises a number of printed circuit boards mounted within a type 8092ST stainless steel enclosure or a type 8092W Aluminium enclosure manufactured by International Metal Engineering Pte Limited to IECEx SIR 08.0025U.

Alternatively the controller may be mounted within a type XD-SIwin stainless steel or a type XD-Iwin aluminium enclosure manufactured by Limatherm to IECEx FTZU 10.0010U and IECEx FMG 06.0003U respectively.

The threaded enclosure covers are provided with a window and a locking screw and the base has three threaded M20 or 3/4" NPT cable entries.

The controller is rated up to 250V a.c. or 28V d.c., 4W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 2.1

To permit an increase in the maximum ambient temperature from 50°C to 54°C.

Variation 2.2

To permit a change of photo detector.

ExTR: GB/BAS/ExTR13.0013 /00

File Reference: 13/0043