

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

Cer	tificat	e N	0.:

IECEx SIR 10.0191

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2011-03-15

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Applicant:

Mine Safety Appliances Company

1000 Cranberry Woods Drive

Cranberry Township Pennsylvania 16066

United States of America

Electrical Apparatus:

FlameGard 5 MSIR

Optional accessory:

Type of Protection:

Flameproof and Dust by Enclosure

Marking:

Ex d IIC T5 Gb Ex t IIIC T100°C Db (Ta = -40°C to +80°C)

Approved for issue on behalf of the IECEx

Certification Body:

D R Stubbings BA MIET

Certification Manager

Position:

Signature:

(for printed version)

Date:

2011-03-15

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.

Certificate issued by:

SIRA Certification Service Rake Lane Eccleston Chester CH4 9JN United Kingdom





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Manufacturer:

Mine Safety Appliances Company

1000 Cranberry Woods Drive Cranberry Township Pennsylvania 16066

United States of America

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

Explosive atmospheres - Part 0:Equipment - General requirements

Edition: 5

IEC 60079-1: 2007-04

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition: 6

IEC 60079-31: 2008

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

Edition: 1

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/SIR/ExTR10.0304/00

Quality Assessment Report:

FR/INE/QAR08.0011/01



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Schedule		
EQUIPMENT: Equipment and systems covered by this certificate are as follows:		
The FlameGard 5 MSIR is an infrared device that is rated at 2.1 W maximum. It is manufactured from stainless steel, is cylindrical in shape and comprises a base and cover secured by five, M6, grade A2-70, hexagon sockethead cap screws. The base contains a stainless steel mounting pin and two, ¾"-14 NPT, cable entry that accommodate suitable cable entry devices or stopping plugs. The cover contains a sapphire window and houses the PCBs and associated electronics that perform the equipment's measuring function		
CONDITIONS OF CERTIFICATION: NO		