



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

Certificate No.: IECEx BAS 11.0071X issue No.:5

Status: **Current**

Date of Issue: 2017-03-22 Page 1 of 4

Certificate history:  
Issue No. 5 (2017-3-22)  
Issue No. 4 (2017-1-5)  
Issue No. 3 (2015-2-6)  
Issue No. 2 (2014-9-5)  
Issue No. 1 (2013-8-2)  
Issue No. 0 (2011-9-2)

Applicant: **Hawke International**  
A Division of Hubbell Limited  
A Member of the Hubbell Group of Companies  
Oxford Street West, Ashton-under-Lyne  
Lancashire, OL7 0NA  
**United Kingdom**

Equipment: **487 stopping plug**  
Optional accessory:

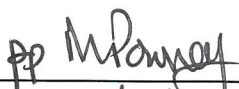
Type of Protection: **Flameproof, Increased safety, Dust Protection by Enclosure**

Marking: **Ex db I Ex eb I Mb**  
**Ex db IIC Ex eb IIC Gb**  
**Ex tb III C Db (-60°C to +80°C, -60°C to +160°C or -60°C to 200°C) see schedule**  
**or**  
**Ex db IIC Ex eb IIC Gb**  
**Ex tb III C Db (-60°C to +80°C, -60°C to +160°C or -60°C to 200°C) see schedule when**  
**manufactured from aluminium**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:  
(for printed version)

  
\_\_\_\_\_ MOWNEY  
Date: 22/3/17

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: **Hawke International**  
A Division of Hubbell Limited  
A Member of the Hubbell Group of Companies  
Oxford Street West, Ashton-under-Lyne  
Lancashire, OL7 0NA  
**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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition: 5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/ExTR11.0165/00](#)  
[GB/BAS/ExTR15.0032/00](#)

[GB/BAS/ExTR13.0164/00](#)  
[GB/BAS/ExTR16.0322/00](#)

[GB/BAS/ExTR14.0223/00](#)  
[GB/BAS/ExTR17.0095/00](#)

##### Quality Assessment Report:

[GB/BAS/QAR06.0061/06](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Type 487 Range of Stopping Plugs is manufactured in brass, steel, stainless steel or aluminium and is designed for the closure of unused entries in flameproof, increased safety or dust protected enclosures. The range covers sizes with metric threads from M16 to M130, other parallel thread forms of equivalent sizes, for example electrical conduit (ET), Pg, BSPP are provided.

Each plug has a threaded portion, 15mm to 20mm long as a minimum, depending on the thread type and size, and a larger circular head with a tapered shoulder. The stopping plug is manufactured with a broached hexagon hole in the larger diameter which is intended for tightening purposes. The underside of the shouldered head may be machined with a groove into which a nitrile or silicone rubber O-ring may be fitted to provide sealing to an associated enclosure.

The stopping plugs, when provided with the O rings and fitted in to suitable equipment, is capable of meeting the requirements of IP66/IP67

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The maximum operation temperature range of the stopping plug when fitted with a nitrile O-ring is -60°C to +80°C.
2. The maximum operating temperature range of the stopping plug when fitted with a silicone O-ring is -60°C to +160°C.
3. The maximum operating temperature range of the stopping plug when fitted with no O ring is -60°C to +200°C.
4. When the stopping plug is fitted in plain holes in increased safety or dust protected enclosures the sealing face of the enclosure is to be smooth and the hole no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug is to be secured with a locknut and optional locking washer.
5. When fitted in threaded holes the sealing face of the enclosure is to be smooth, the threaded hole perpendicular to the wall of the enclosure and the thread medium fit.
6. When the stopping plugs are used for increased safety or dust protection and no O ring is fitted the user is to ensure that the enclosure and stopping plug interface is suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.



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

### Variation 5.1

To permit a change in dimension of internal RFID screw thread from M5 to a maximum M5.

ExTR: GB/BAS/ExTR17.009500

File Reference: 17/0210