



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX FME 18.0003X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 2 [Issue 1 \(2018-12-03\)](#)  
[Issue 0 \(2018-05-18\)](#)  
Date of Issue: 2019-04-25  
Applicant: **Micropack Engineering Ltd.**  
Fire Training Centre  
School Hill  
Portlethen, Aberdeen, AB12 4RR  
United Kingdom  
**United Kingdom**  
Equipment: **FDS303 IR3 Multi Spectrum Flame Detector**  
Optional accessory:  
Type of Protection: **Flameproof Enclosure "db"**  
Marking: Ex db IIC T4 Gb Ta= -60°C to +85°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Nicholas Ludlam**

Position:

**Certification Manager**

Signature:  
(for printed version)

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.
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Certificate issued by:

**FM Approvals Ltd**  
**1 Windsor Dials**  
**SL4 1RS Windsor**  
**United Kingdom**





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Manufacturer: **Micropack Engineering Ltd.**  
Fire Training Centre  
School Hill  
Portlethen  
Aberdeen  
AB12 4RR  
**United Kingdom**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/FME/ExTR18.0002/00](#)

[GB/FME/ExTR18.0002/01](#)

[GB/FME/ExTR18.0002/02](#)

Quality Assessment Report:

[GB/FME/QAR07.0001/09](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The **FDS-303 IR3 Multi Spectrum Flame Detector** includes an Aluminium or Stainless Steel assembly consisting of a threaded enclosure body, a threaded back cover and a threaded window cover. An O-ring seal is provided at each end between the enclosure body and the back cover / window cover respectively in order to prevent the ingress of dust and water.

The electrical ratings are 32Vdc maximum and 700mA (maximum).

The ambient temperature range of the equipment is from -60°C to +85°C.

The enclosure has an ingress protection rating of IP66.

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

1. The equipment is to be installed in places where there is a low risk of mechanical damage.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
Documentation update.