



# 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 ITS 12.0007X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2013-06-18

Applicant: **Pyropress Engineering Company Ltd**  
Bell Close  
Plympton  
Plymoth  
Devon  
PL7 4JH  
United Kingdom

Equipment: **Perseus Ex d Switch**

Optional accessory:

Type of Protection: **Ex d - Flameproof**

Marking: **Ex d IIC T\* Gb**  
\* T5 - Tamb: -50°C to + 89°C  
\* T6 - Tamb: -50°C to + 74°C  
**IECEx ITS12.0007X**

Approved for issue on behalf of the IECEx  
Certification Body:

**K R Spence**

Position:

**Certification Officer**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road  
Leatherhead  
Surrey, KT22 7SB  
United Kingdom





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Manufacturer: **Pyropress Engineering Company Ltd**  
Bell Close  
Plympton  
Plymoth  
Devon  
PL7 4JH  
**United Kingdom**

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 60079-1:2007](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6

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 Report:

[GB/ITS/ExTR12.0007/00](#)

Quality Assessment Reports:

[GB/ITS/QAR11.0004/00](#)

[GB/ITS/QAR11.0004/01](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Perseus switch range is used to sense changes in temperature, pressure, level and flow via mechanical actuators. A generic two-chamber enclosure (139 x 67 x 62mm) is utilised for all applications, this is manufactured from aluminium LM25TF or material of greater tensile strength with less than 7.5% Magnesium, Titanium and Zirconium by mass. The maximum internal free volume of the enclosure is 99cc.

The lower chamber houses the operating rod and associated mechanical connection facilities. The operating rod passes through a threaded M32 bushing forming a cylindrical flame path. The threaded bushing then screws into the enclosure forming a threaded flame path. The upper chamber contains the electrical connection facilities and PCB. The upper chamber has an access opening which has an M52 x 1 threaded flame path.

The cable entry point has an M20 x 1.5 threaded (or NPT equivalent) flame path for fitment of a suitably certified cable entry device. Both internal and external earthing points are provided.

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

- Temperatures at the branching point can reach 98°C. Selection of cable must be appropriate for the ambient temperature range in which the product is used.
- The certification applies to the enclosure without cable glands, only suitably approved flameproof cable glands may be used (Ex d IIC Gb).
- When conduit is utilised it must be sealed in accordance with Clause 13.2.2 of IEC 60079-1:2007 with a suitably approved conduit sealing device (Ex d IIC Gb).
- No modifications must be made to the flamepaths of the unit without consultation of the manufactures drawings.

## **Annex:**

[Annex to IECEx ITS 12.0007X issue 0.pdf](#)



**Schedule of Drawings for Certificate: IECEx ITS 12.0007X Issue 0**

**Manufacturer:**

Pyropress Engineering Company Limited  
Bell Close  
Plympton  
Plymouth  
Devon PL7 4JH

<b>Document No.</b>	<b>Sheets</b>	<b>Document Title</b>	<b>Issue</b>	<b>Date (dd/mm/yyyy)</b>
1218A2	1 of 1	CERTIFICATION DRAWING PERSEUS Exd SWITCH	3	11/04/2013
1219A3	1 of 1	LABEL CERTIFICATION Exd PERSEUS	3	11/04/2013

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