



# 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 BAS 18.0074X** Page 1 of 4 Certificate history:  
Issue 0 (2018-12-12)

Status: **Current** Issue No: 1

Date of Issue: 2019-10-18

Applicant: **Federal Signal Corporation**  
2645 Federal Signal Drive  
University Park  
Illinois 60484  
**United States of America**

Equipment: **PAGASYS Gen II Access Panel Type AP7 / AP8**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ib IIB Gb**  
**(-20°C ≤ Ta ≤ +55°C)**

Approved for issue on behalf of the IECEX  
Certification Body:

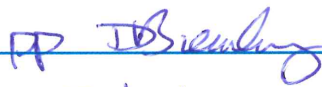
**R. S. Sinclair**

D BREARLEY  
Certification  
Manager

Position:

**Technical Manager**

Signature:  
(for printed version)

  
\_\_\_\_\_  
2.11.19/17

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

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





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Manufacturer: **Federal Signal Corporation**  
2645 Federal Signal Drive  
University Park  
Illinois 60484  
**United States of America**

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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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/BAS/ExTR18.0321/00](#)

[GB/BAS/ExTR19.0285/00](#)

Quality Assessment Report:

[US/UL/QAR06.0012/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The PAGASYS Gen II Access Panel Type AP7 / AP8 provide remote audio and alarm initiation when connected to a main communication and alarm system (a public address and general alarm, PAGA, system).

The equipment consists of up to three printed circuit boards (one keypad PCB and one PCB for each of the two panel drivers) containing various electronic components, a membrane keypad with LED indicators (which may be mounted on a flat or an angled enclosure face), one or two piezoelectric sounders and an Exi MIC1 microphone, meeting the requirements for Ex ia IIC T6 Ga, housed within a metal enclosure which provides a degree of ingress protection of at least IP54.

Electrical connections are made to the P-IS-BARRIER-G, coded [Ex ib Gb] IIB and covered by IECEx BAS 18.0073X, via armoured multicore Type A or Type B cables with entry to the enclosure being made by appropriate cable glands located on a removable gland plate on the rear of the enclosure.

### Input parameters

Terminals 1, 2, 5, 6, 7, 8 wrt 3

$U_i$	=	8.6V	$C_o$	=	55 $\mu$ F
$I_i$	=	100mA	$L_o$	=	14.22mH
$P_i$	=	215mW			

Terminal 4 wrt 3

$U_i$	=	15.02V	$C_o$	=	3.55 $\mu$ F
$I_i$	=	309mA	$L_o$	=	2.97mH
$P_i$	=	1.16W			

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

1. The PAGASYS Gen II Access Panels are to be connected to a P-IS-BARRIER-G, terminal blocks TB2 & TB3, located in the non-hazardous area, via Type A or B cables (with parameters not exceeding those given above) as defined in IEC 60079-14.
2. The PAGASYS Gen II Access Panels are intended for desktop or rack mounting and bonding to earth must be achieved when correctly installed.



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

### Variation 1.1

To permit the use of a protective keypad cover.

ExTR: <b>GB/BAS/ExTR19.0285/00</b>	File Reference: <b>19/0110</b>
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