



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

Certificate No.: **IECEx UL 19.0074X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-10-25

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

Equipment: **Flameproof Increased Safety Callpoint Assemblies, Control Stations**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Encapsulation "mb", Dust Ignition Protection by Enclosure "tb"**

Marking: Ex db eb mb IIC T4 Gb
Ex tb IIC T100°C Db
-40°C to +70°C

Approved for issue on behalf of the IECEx
Certification Body:

David Lloyd

Position:

Engineering Leader

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Federal Signal Corporation**
2645 Federal Signal Drive
University Park, IL 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 60079-0:2011 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

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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 Report:

[US/UL/ExTR19.0083/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The increased safety callpoint assemblies are constructed out of high-impact resistant glass-reinforced polyester (GRP) thermoset plastic housing and faceplate for corrosion resistance. These devices have visual indicators with a reset keyway. There are one or two flameproof switches available (two switches unavailable with LED option factory installed). These devices come in two different options: Pushbutton (PB) and Break Glass (BG). These devices contain the following Ex components listed in Table 1. In addition to the Ex components, there are encapsulated ("mb") EOL series diodes and pilot light LEDs mounted into these increased safety enclosures. There are three 1/2 in. NPT or M20 entries for conduit entries.

The push-button (PB) version has a large button in the center cover.

The break glass (BG) version has a metal rod attached on a chain to break the glass. This version also has a cover flap that is not relied upon for "eb" or "tb" protection.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment has an optional protective non-metallic cover which may provide a potential electrostatic charging hazard.
- The equipment has an option metallic break glass hammer mounted to the enclosure which can store electrical charge and therefore may provide a potential electrostatic charging hazard. The metallic break glass hammer has a capacitance of 94pF.

Annex:

[Annex to IECEx UL 19.0074X Issue 0.pdf](#)



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TYPE DESIGNATION

NOMENCLATURE:

Example:

I	II	III	IV	V	VI	VII	VIII
CP	PB	M	R	L	FNN	12	1

I. Series Designation

CP – Callpoint Series

II. Activation

PB – Pushbutton

BG – Break Glass

III. Entries

M – Metric

N – NPT

IV. Color

R – Red

Y – Yellow

K – Black

G – Green

B – Blue

V. Switch/ Wiring Term

S – Single, clamp term

D – Dual, clamp term

L – LED Dual, Clamp term

1 – Single, screw term

2 – Dual, screw term

3 – LED dual, screw term

VI. Lift Flap/ Hammer

NNN – None

NNH – No flap, no label, +hammer

FFN - +flap, no label, no hammer

FAN - +flap, +activate label, no hammer

FFN - +flap, +fire label, no hammer

FNH - +flap, no label, +hammer

FAH - +flap, +activation label, +hammer

FFH - +flap, +fire label, +hammer

VII. Indicator LED

00 – None

06 – Indicator LED, 6V

12 – Indicator LED, 12V

24 – Indicator LED, 24V



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48 – Indicator LED, 48V

- VIII. Certification
- 1 – ATEX/IECEx
 - 2 – ENS4-11/ATEX
 - 3 – Weatherproof
 - 4 – UL

Installation Instructions:

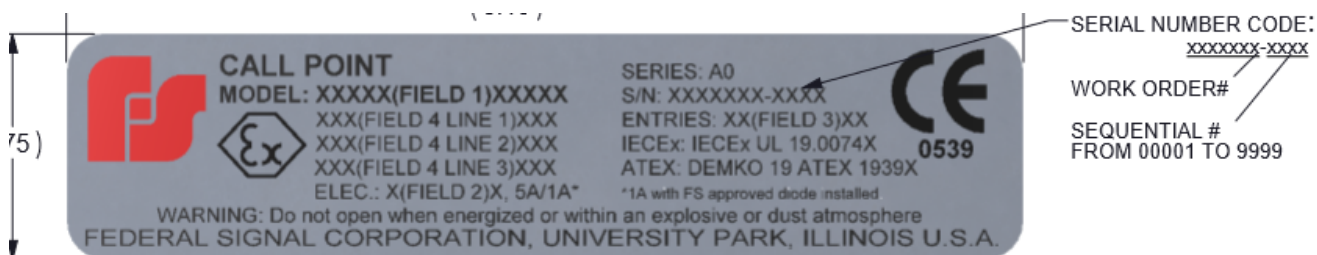
- Ensure that all cable glands, stopping plugs are certified with a suitable sealing washer/o-ring to insure the IP rating of the station.
- Before connecting to power, the user must confirm the external voltage source and internal EOL/Series resistor values are in accordance as shown above. The resistance of the resistor modules are marked on the resistor module enclosures. If the EOL/series resistor value chosen is outside the range above, the hazardous area safety protection of the Ex potted module is compromised. The maximum power dissipation on the resistor is 1W.

PARAMETERS RELATING TO THE SAFETY

Maximum = 48Vdc; 5A Maximum (1A with diode resistor)

MARKING

Marking has to be readable and indelible; it has to include the following indications:



FIELD 1 (MODEL)
CP-BG-X-X-X-X-XX-X
CP-PB-X-X-X-X-XX-X

FIELD 2 (VOLTAGE)
6VDC
12VDC
24VDC
48VDC
48VDC MAX

FIELD 3 (ENTRY)
3xM20
3x1/2"NPT

FIELD 4 (CERTIFICATIONS - 3 lines)	
BG BREAK GLASS MODELS	II 2 G Ex db eb mb IIC T4 Gb Tamb = -40°C to +70°C II 2 D Ex tb IIIC T100°C Db IP66
PB PUSH BUTTON MODELS	II 2 G Ex db eb mb IIC T4 Gb Tamb = -40°C to +70°C II 2 D Ex tb IIIC T100°C Db IP65



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ROUTINE EXAMINATIONS AND TESTS

A routine dielectric test according to IEC 60079-7, Clause 7.1 and IEC 60079-18, Clause 9.2, is required on the Callpoint stations either on all devices or on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0.04. The Callpoint stations shall withstand the test voltage of either 500 V r.m.s. for 1 minute or 600 V r.m.s for 100 ms without dielectric breakdown occurring.

Per IEC 60079-18 routine testing is applicable. Each sample must be subjected to a visual inspection. No visible damage to the compound that could impair the type of protection shall be evident.

LIST OF CERTIFIED COMPONENTS

Product Type	Cat. No.	Manufacturer	Ex Protection	IECEx Certificate	Standards and Editions	Service or Ambient Temperature
Terminal Blocks	262 Series	Wago	Ex eb IIC Gb	IECEx PTB04.0004U	IEC 60079-0: 2011 IEC 60079-7: 2015	-55°C to +85°C
Terminal Blocks	BK Series	Weidmuller	Ex eb IIC Gb	IECEx TUR 18.0019U	IEC 60079-0: 2017 IEC 60079: 2015	-60°C to +130°C
Switch	07-15-11-7530/02 (Single) or 07-15-11-7533/02 (Dual)	Bartec	Ex db IIC Gb	IECEx EPS 14.0091U	IEC 60079-0: 2017 IEC 60079-1: 2014	-60°C to +100°C
Proximity Switch	Type #831391 (1X or 2X)	Crouzet Automatismes	Ex d IIC Gb	IECEx LCIE 13.0035U	IEC 60079-0: 2011 IEC 60079-1: 2007	-40°C to +70°C