

EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU-Type Examination Certificate Number: **DEMKO 19 ATEX 1939X Rev. 0**

Product: **Increased Safety Callpoint Assemblies**

Manufacturer: **Federal Signal Corporation**

Address: **2645 Federal Signal Drive, University Park, IL 60484 USA**

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4788812148.1.1**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013
EN 60079-18:2015

EN 60079-1: 2014
EN 60079-31:2014

EN 60079-7:2015

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

The marking of the product shall include the following:

II 2 G **Ex db eb mb IIC T4 Gb**
 II 2 D **Ex tb IIIC T100°C Db**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2019-10-25



Notified Body

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Schedule

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Description of Product

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.

Nomenclature for Callpoint Stations:

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
48 – Indicator LED, 48V
- VIII. Certification
1 – ATEX/IECEx
2 – ENS4-11/ATEX
3 – Weatherproof
4 - UL

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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.

Temperature range

The ambient temperature range is -40 °C to +70 °C.

Electrical data

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

Routine tests

A routine dielectric test according to EN 60079-7, Clause 7.1 and EN 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 EN 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.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

- 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.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Callpoint Stations, Series CP has in addition passed the tests for Ingress Protection to IP66 for BG (Break Glass models) and IP65 for PB (Pushbutton models) in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Accredited by DANAK under registration number 7011 to certification of products.