



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx CSA 13.0039

Issue No: 4

Certificate history:

Status: **Current**

Issue No. 4 (2017-11-22)

Issue No. 3 (2017-03-27)

Date of Issue: **2017-11-22**

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Issue No. 2 (2016-10-28)

Issue No. 1 (2014-03-07)

Issue No. 0 (2013-12-16)

Applicant: **CDI**  
1801 N Juniper Ave, Broken Arrow, OK.  
74012  
**United States of America**

Equipment: **CD52 BANDIT PIG PASSAGE DETECTOR (or SIGNALER)**

*Optional accessory:*

Type of Protection: **Ex d mb**

Marking:

Ex d mb IIB T5 Gb IP66

Tamb: - 20C to +54C (DURACELL PC1300)

Tamb: - 40C to +70C (SAFT LS33600)

Tamb: - 40C to +70C (SAFT MP176065)

Tamb: - 20C to +65C (ANSMANN 5035362)

Tamb: - 40C to +70C (24Vdc operation)

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dorin Stochitoiu

*Position:*

Technical Advisor

*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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**CSA Group**  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada





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Manufacturer: **CDI**  
1801 N Juniper Ave, Broken Arrow, OK. 74012  
**United States of America**

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6  
**IEC 60079-18 : 2009** Explosive atmospheres Part 18: Equipment protection by encapsulation "m"  
Edition:3

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

[CA/CSA/ExTR13.0045/00](#) [CA/CSA/ExTR13.0045/01](#) [CA/CSA/ExTR13.0045/02](#)  
[CA/CSA/ExTR13.0045/03](#) [CA/CSA/ExTR13.0045/04](#)

### Quality Assessment Report:

[CA/CSA/QAR12.0002/04](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

CD52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER)/81-05-0080

CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER)/81-05-0063

### Ratings:

24Vdc; 0.029A (29mA); 0.70 Watts

24Vdc; 0.065A (65mA); 1.6 Watts - 4-20mA Output Option

3Vdc; 0.0009A (0.9mA); 0.0027 Watts – Battery PC1300

2.4V; 0.0008A (0.8mA); 0.0019 Watts – Battery NiMH

3.6V; 0.0006A (0.6mA); 0.0022 Watts – Battery Li LS33600

3.65V; 0.0005A (0.5mA); 0.0018 Watts – Battery Li MP176065

Supply type	Ambient range
External	-40°C to +70°C
Duracell PC1300	-20°C to +54°C
Ansmann 5035362	-20°C to +65°C
SAFT LS33600	-40°C to +70°C
SAFT MP176065	-40°C to +70°C

**SPECIFIC CONDITIONS OF USE: NO**



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

Issue 1: Addition of portable version of CD52 STANDARD BANDIT PIG PASSAGE DETECTOR and updating a few revised label drawings. It is the same design, but in a portable package. The electrical ratings remain the same.

Issue 2: The original rating included battery or 24Vdc power and external 2-wire interface to N.O. or N.C. dry contact relay. This update is for units with 24Vdc power only to change the relay contact to a 4-20mA current loop. Covers introduction of an optional IECEx certified Ex d/tb Blanking Element/Stopping Plug, introduction of optional IECEx and ATEX certified Ex d/tb barrier cable glands, introduction of three optional IEC armored cables.

Issue 3: The issue 3 update serves to correct a typo from issue 2. The model number listed previously for the Certified Blanking Element/Stopping Plugs was PA-D-3-0-30-00. The actual model number is PA-D-5-0-30-00.

Introduction of model number 81-06-0063 and 81-05-0080. The design being different only in that it has cosmetic changes for customer orders (customer name on display face).

The recognition of design and drawing modifications; these amendments involve changes to components and design that do not affect the aspects of the product that are relevant to explosion safety, as detailed below:

- Clarification of the use of a replacement junction box whilst correcting a typographical correction to drawings
- The introduction of alternative cable glands dependent upon the integral cables fitted to the equipment necessitating the introduction of new conditions
- Replacement of the existing armoured cable with three alternative cables
- Removal of the use of a type of cable gland

Issue 4: Addition of three new batteries Ansmann 5035362, SAFT LS33600 and SAFT MP 176065 with expansion of the ambient temperature range based on the manufacturer's datasheet. Also expansion of ambient range for the already existing battery Duracell PC1300. Addition of new drawings and revision of drawings in accordance to modifications covered.