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 CSA 13.0039**

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Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2017-11-22)
Issue 3 (2017-03-27)
Issue 2 (2016-10-28)
Issue 1 (2014-03-07)
Issue 0 (2013-12-16)

Date of Issue: 2020-04-01

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: - 20°C to +53°C (DURACELL 1300)
Tamb: - 40°C to +70°C (SAFT LS33600)
Tamb: - 40°C to +70°C (SAFT MP176065)
Tamb: - 20°C to +64°C (ANSMANN 5035362)
Tamb: - 40°C to +70°C (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 www.iecex.com or use of this QR Code.

Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W IR3
Canada

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Certificate No.: **IECEx CSA 13.0039**

Date of issue: 2020-04-01 Issue No: 5

Manufacturer: **CDI**
1801 N Juniper Ave, Broken Arrow, OK. 74012
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 60079-1:2007-04 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 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:

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 CA/CSA/ExTR13.0045/05

Quality Assessment Report:

CA/CSA/QAR12.0002/05

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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 +53˚C
Ansmann 5035362	-20˚C to +64˚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.

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

1. 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 armoured cables.

Issue 3

1. 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.
2. 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).
3. 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

1. Addition of three new bateries 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.

Issue 5.

1. To permit the update of the notified body number shown on the marking label drawings.
2. To permit the reduction of the maximum ambient temperature for supply type Duracell PC1300 from +54°C to +53°C and for Ansmann 5035362 from +65°C to +64°C