



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

Certificate No.: IECEx CSA 13.0039 Issue No: 3 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 3 (2017-03-27)
Date of Issue: **2017-03-27** Issue No. 2 (2016-10-28)
Applicant: **CDI** Issue No. 1 (2014-03-07)
1801 N Juniper Ave, Broken Arrow, OK. Issue No. 0 (2013-12-16)
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: - 40C to +45C (Battery operation)
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2009 Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"

*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](#)

Quality Assessment Report:

[CA/CSA/QAR12.0002/03](#)



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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

CD 52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER) 24VDC: Tamb -40°C ~ 70°C

CD 52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER) with battery: Tamb -40°C ~ 45°C

CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER) 24VDC: Tamb -40°C ~ 70°C

CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER) with battery: Tamb -40°C ~ 45°C

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

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