



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 13ATEX1381** Issue: **0**

4 Equipment: **CD52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER)  
CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER)**

5 Applicant: **CDI**

6 Address: **1801 N Juniper Ave  
Broken Arrow  
Oklahoma 74012  
USA**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012

EN 60079-1:2007

EN 60079-18:2009

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G

Ex d mb IIB T5 Gb

Tamb -40°C ~ +70°C (when supplied with 24 VDC)

Tamb -40°C ~ +45°C (when battery powered)

Project Number 28998

A C Smith  
Certification Manager

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**SCHEDULE**

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**13 DESCRIPTION OF EQUIPMENT**

The CD 52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER) and CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER) are non-intrusive PIG passage indicators. CD 52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER) and CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER) are comprised of an interconnected Flameproof (Ex) Electronics Enclosure, Ex d Conduit Sealing Fitting, Ex d Unions, Ex d Outlet Body (Junction Box) and coupler to the Antenna pipe which is fully encapsulated.

The main electronics assembly is comprised of (Passage Information) LCD display (Display Board) and Low voltage circuitry installed (incorporating 4 PCB's – Heater Thermostat Switch Board, Heater Board, User Board and PC Board ), housed in an Adalet (XIHLDG CX) Flameproof enclosure. The device can be supplied by a 24Vdc power supply (connection supplied through terminal strip mounted in the Ex Outlet Box) or two D-Cell alkaline batteries housed in the Adalet Ex enclosure. Installed in the completely potted Pipe Mounting assembly are two Magnetic Transmitters that emit an electric field or two permanent magnets.

The CD 52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER) and the CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER) have two operations 24VDC, and Battery and each operation has different operation temperature ranges.

The CD 52 STANDARD BANDIT PIG PASSAGE DETECTOR (or SIGNALER) has an aluminium alloy antenna base and 2 x 3/4" reducing fitting and the CD52 STAINLESS STEEL BANDIT PIG PASSAGE DETECTOR (or SIGNALER) has a stainless steel antenna base and 2 x 3/4" reducing fitting.

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	03 December 2013	R28998A/00	The release of the prime certificate.

**15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)**

None

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.



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17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 As per EN 60079-18:2009 Clause 9.1, each piece of encapsulated equipment shall be subjected to a visual inspection. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, and decomposition, failure of adhesion or softening.
- 17.4 A dielectric strength test at 500 Vrms for 1 sec in accordance with clause 9.2 of EN 60079-18:2009 shall be carried out on the antenna

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# Certificate Annexe

Certificate Number: Sira 12ATEX1381  
Equipment: Refer to Section 4  
Applicant: CDI

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## Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
81-05-0080-S	1 to 7	H	02 Dec 13	Schedule Drawing CD52 Standard Bandit
81-05-0063-s	1 to 7	H	02 Dec 13	Schedule Drawing CD52 Stainless Steel Bandit
89-02-0062-00	1 of 1	C	02 Dec 13	Schematic CD52 Battery Module (3V)
89-02-0002-00	1 of 1	A1	02 Dec 13	CD52-Bandit –User Board

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