



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX27734X Issue 2

13. Description of Equipment or Protective System

The Continental Disc Corporation BDI BURST DISC INDICATOR consists essentially of two parallel flexible copper or tantalum strips located between layers of Kapton film. The strips are linked at the end remote from the electrical connections. The centre section of each strip is reduced in width.

The copper or tantalum strip assembly may be mounted on a Teflon membrane and installed between pipeline flanges. The assembly may be integral with a bursting disc or mounted separately from, but adjacent to, a bursting disc.

The maximum intrinsically safe input parameters are as follows:

$U_i = 24V$ dc
 $I_i = 50$ mA
 $P_i = 0.3W$

The equivalent parameters are:

$C_i = 0$
 $L_i = 0$

The temperature class of the equipment is marked Tx, since the temperature rise within the BDI Strip is negligible. The surface temperature is dependent on the process temperature or the ambient temperature at the installation position.

14. Report Number

Intertek Report Ref: 101585709LHD-002A Issue 1 dated August 2015 and 102872137DAL-001 dated March 2017.

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- Temperature Class of the BDI sensor is marked as Tx, since the surface temperature is controlled by the process temperature being monitored. The sensor itself exhibits negligible temperature rise.
- When located in an area requiring EPL Ga / Category 1G (e.g. Zone 0) hazardous area, the user shall ensure that electrostatic charging of the non-metallic parts cannot occur.
- When provided with terminations by means of flying leads, these shall be terminated in an appropriately protected terminal box.
- When installed, the BDI strip shall be provided with an IP rating of IP20 as a minimum.
- For Group I applications, the BDI strip and terminations shall be protected to IP54 or better.
- The BDI does not meet the 500V dielectric strength requirement of EN 60079-11:2012 Clause 6.3.13. The user shall take this into consideration in the installation, for example by the provision of equipotential bonding throughout the installation, additional earth bonding or the provision of Galvanic Isolation at the supply.

(b). Conditions of Manufacture - Routine Tests

- None

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 1101585709LHD-002A Issue 1 dated August 2015 and 102872137DAL-001 dated March 2017.

EU-Type Examination Certificate



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17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Special B.D.I. Assembly - Schedule Drawing	CD31720-63-SD	N/R	3/5/2014
Burst Disc Indicator Strip Label	LMD-BSL-1001-01	AE	5/27/2015
Burst Disc Indicator Strip Schedule Drawing	STPSD	N/R	3-5-2014
Tantalum Low Pressure Universal Burst Disc indicator Schedule Drawing	TLPUBDSD	N/R	3-5-2014
Tantalum Universal or Integral Burst Disc Indicator Schedule Drawing	TUBDSD	N/R	3-5-2014
Universal or Integral Burst Disc Indicator Schedule Drawing	UBDSD	A	1-21-14

18. Details of Certificate changes

Issue 1, Intertek Report Ref. G101980150, dated August 2015

Original certificate issue.

Issue 2, Intertek Report Ref. 102872137DAL-001, dated 23 March 2017

To permit following updates, thus forming BDI:

- Update to the design of the BDI consist of Kapton film where previously certified single strip design is updated to a double strip design where the completely independent strips cross in an 'X' layout.
- Upper ambient temperature of the BDI design consist of Tantalum is increased to 288°C.
- Following change was made to the product description:

From:

The copper or tantalum strip assembly is mounted on a Teflon membrane.

To:

The copper or tantalum strip assembly may be mounted on a Teflon membrane

Drawings

Title:	Drawing No.:	Rev. Level:	Date:
Special Dual B.D.I. Strip - Schedule Drawing	DBSSD	A	3/16/2017

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