

# EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS11ATEX27323**

4. **Product:** MTB-700 B.D.I. Alarm Monitor

5. **Manufacturer:** Continental Disc Corporation

**Applicant:** Continental Disc Corporation

6. **Address:** 3160 West Heartland Drive  
Liberty, MO 64068  
USA

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Liberty, MO 64068  
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7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Testing and Certification Reports Nr. 11051417A issue 1, dated July 2011 and Nr. G102653778 dated August 2016.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, and EN 60079-11:2012 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

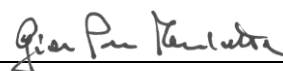
12. The marking of the product shall include the following:



II (1) G [Ex ia Ga] IIC  
II (1) D [Ex ia Da] IIIC  
-20°C ≤ Ta ≤ +45°C

**Certificate issue date**

05 April 2019



**Gian Paolo Tondetta**

Certification Manager ATEX  
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate is the transfer of the certificate issued by Intertek Testing & Certification Ltd. (NB 0359) having the same number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

**Intertek Italia S.p.A.** Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

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### 13. SCHEDULE

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### 15. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Continental Disc Corporation MTB-700 B.D.I. Alarm Monitor consists of a GRP enclosure for location in a non-hazardous location, housing apparatus to limit to an intrinsically safe level the transfer of energy between unspecified non-hazardous area apparatus and hazardous area apparatus.

The MTB-700 consists of unspecified electrical circuits and intrinsically safe certified MTL5018 Switch-operated relay(s), which may be supplied from a 24 V<sub>dc</sub> or 120 V<sub>ac</sub> or 240 V<sub>ac</sub>.

The MTB-700 Alarm Monitor may be one of the following types:

Two / Four Channels (M2S / M4S) or Two / Four Channels with annunciator (M2A / M4A)

For four channels, two MTL5516C switch operated relay, EC Type Examination Certificate number Basefa07ATEX0211 may be fitted whereas for two channels, one MTL5516C switch-operated relay may be fitted.

Intrinsic safety is assured by use of intrinsically safe certified interface devices and infallible segregation

IS parameters:

U<sub>o</sub> = 10.5 V<sub>dc</sub>

I<sub>o</sub> = 14 mA

P<sub>o</sub> = 37 mW

C<sub>i</sub> = 0

L<sub>i</sub> = 0

Gas Group	Co	Lo	Lo/Ro
	μF	mH	μH/Ω
IIC	2.41	175	967
IIB	16.8	680	1333
IIA	75	1000	1333
Group III	16.8	680	1333

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

### 16. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
General Assembly – Two Channel 24V DC	M2S-0000-V024	H	04.19.2016
General Assembly – Two Channel 120V AC	M2S-0000-V120	H	05.11.2011
General Assembly – Two Channel 240V AC	M2S-0000-V240	G	05.11.2011
General Assembly – Two Channel 24V DC with Annunciator	M2A-0000-V024	k	04.19.2016
General Assembly – Two Channel 120V DC with Annunciator	M2A-0000-V120	J	05.11.2011



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TITLE	DOCUMENT Nr	LEVEL	DATE
General Assembly – Two Channel 240V DC with Annunciator	M2A-0000-V240	H	05.11.2011
General Assembly – Four Channel 24V DC	M4S-0000-V024	H	04.19.2016
General Assembly – Four Channel 120V AC	M4S-0000-V120	H	05.11.2011
General Assembly – Four Channel 240V AC	M4S-0000-V240	G	05.11.2011
General Assembly – Four Channel 24V AC with Annunciator	M4A-0000-V024	J	04.19.2016
General Assembly – Four Channel 120V DC with Annunciator	M4A-0000-V120	J	05.11.2011
General Assembly – Four Channel 240V DC with Annunciator	M4A-0000-V240	H	05.11.2011
24V DC Barrier Assembly	513-0001-00	D	04.19.2016
120/240V AC Barrier Assembly	513-0004-00	F	04.19.2016
Front Overlay for Four/Two Channel (M4S/M2S)	153-0001-33	G	05.11.2011
Front Overlay for Four/Two Channel with Annunciator (M4A/M2A)	153-0002-33	H	05.11.2011
Four Channel Power Supply Board Assembly Schematic and PCB Artwork	219-0000-00 Sheet 1 of 3	H	05.11.2011
Four Channel Power Supply Board Assembly Schematic and PCB Artwork	219-0000-00 Sheet 2 of 3	H	05.11.2011
Four Channel Power Supply Board Assembly Schematic and PCB Artwork	219-0000-00 Sheet 3 of 3	H	05.11.2011

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

### 17. SPECIAL CONDITIONS FOR SAFE USE

None.

### 18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Testing and Certification Reports Nr. 11051417A issue 1, dated July 2011 and Nr. G102653778 dated August 2016.

### 19. ROUTINE (FACTORY) TESTS

None.

### 20. DETAIL OF CERTIFICATE CHANGES

None.