



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Equipment Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 21UKEX2294X** Issue: **0**

4 Product: **FT152 2-Wire Optic Retain Sensor**

5 Manufacturer: **Dixon Bayco**

6 Address: **7280 Union Center Boulevard
West Chester
OH 45014
United States of America**

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:


EN 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:

 II 1 G
Ex ia IIB T4 Ga
Ta = -40°C to +70°C

Name: J A May
Title: Director of Operations



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SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 21UKEX2294X
Issue 0**

13 DESCRIPTION OF PRODUCT

The FT152 2-Wire Optic Retain Sensor is a bottom retain (low level liquid) detection sensor that has a 1/2" NPT mounting. The main sensor portion is stainless steel and the wiring box is manufactured from glass filled Nylon plastic to prevent corrosion, and is removable to facilitate installation. The sensor wires enter/exit the wiring box via side ports and terminate at the sensor PCB that is fully encapsulated within the stainless steel tube.

The plastic wiring box is manufactured from 33% Glass Filled Supertough Nylon DuPONT ZYTEL 80G33L which is coloured black.

The safety description is as follows:

$$U_i = 13.7 V \quad P_i = 1 W \quad L_i = 2 \mu H \quad I_i = 180 mA \quad C_i = 0 \mu F$$

Incorporated amendments

The product description includes the following applicable amendments from the previous supporting assessments. Only amendments directly applicable to UKCA certification have been included in this list. The amendments are numbered to include a reference to the variation at which these were introduced.

Amendment 2 - This variation introduced the following changes:

- i. Marking to include Li changed from 0mH to 2μH.

Amendment 4 - This variation introduced the following change:

- i. The Product Name has been amended from FT152 2-Wire Retain (Low Level Liquid) Sensor Probe to FT152 2-Wire Optic Retain Sensor. The product description has been updated accordingly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	17 August 2021	R80086270A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The apparatus is intended for fixed installations and the precautions to avoid risk from electrostatic discharge is highlighted in the installation instructions. The apparatus is marked with an 'X' as per the requirements of Clause 7.3.2-part e) of IEC 60079-0. Additionally, the apparatus is marked with the electrostatic charge warning given in item g) of clause 29.8

15.2 As aluminium is used at the accessible surface of this equipment ignition sources due to impact and friction sparks could occur in the event of rare incidents. This shall be considered when the FT152 Sensor is being installed, particularly in locations that specifically require Group II, Category 1G equipment.



SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

CSAE 21UKEX2294X
Issue 0

- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)**
In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.
- 17 **PRODUCTION CONTROL**
- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders



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Certificate Annexe

Certificate Number: CSAE 21UKEX2294X
 Product: FT152 2-Wire Optic Retain Sensor
 Manufacturer: Dixon Bayco

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
10381_ATEX	1 of 1	A	17 Mar 09	PCB, Blank FT152 Retain Sensor SMT
10134	1 of 1	D	18 Aug 11	Retain sensor cover plate
10471NY	1 of 1	C	18 Aug 11	Retain housing
10472SS	1 of 1	B	18 Aug 11	Retain prism carrier – machining
10475PL	1 of 1	B	18 Aug 11	Sleeve
10378_ATEX	1 of 1	C	28 Jul 14	FT152 Retain Sensor SMT Schematic
10474-1_ATEX	1 of 3	C	28 Jul 14	FT152 Retain Sensor SMT Top Assembly
10474-2_ATEX	2 of 3	C	28 Jul 14	FT152 Retain Sensor SMT Bottom Assembly
10474-3_ATEX	3 of 3	C	28 Jul 14	FT152 Retain Sensor SMT Parts List Assembly
10474-PP-1_ATEX	1 of 3	A	28 Jul 14	FT 152_ATEX Retain Sensor Plug/Play, Top Assembly
10474-PP-2_ATEX	2 of 3	A	28 Jul 14	FT 152_ATEX Retain Sensor Plug/Play, Bottom Assembly
10474-PP-3_ATEX	3 of 3	A	28 Jul 14	FT 152_ATEX Retain Sensor Plug/Play, Parts List
10713SSPL_ATEX	1 of 1	A	17 Sep 14	Retain Sensor Sub-Ass For FT152 Series ATEX
10713SSPL-PP_AX	1 of 1	A	17 Sep 14	Retain Sensor Sub-Ass For FT152PL-PP_AX Series ATEX
FT152_ATEX	1 of 1	B	28 Jul 14	FT152 Retain Sensor ATEX Approved For Europe
FT152P_ATEX	1 of 1	A	27 Aug 14	FT 152_ATEX Retain Sensor Plug/Play,
10619_ATEX	1 of 1	E	25 Jul 14	Probe Plug - 2 Wire
10587	1 of 1	G	13 Jul 21	Label, Retain Sensor FT152 Type
10590	1 to 2	16 Jul 21	22 Jul 21	Instruction Manual 10590 ATEX Supplemental Instruction Sheet For Sensors FT152

