



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 21UKEX2289X** Issue: **0**

4 Product: **FT202 2-Wire Optic Overfill Sensor**

5 Manufacturer: **Dixon Bayco**

6 Address: **7280 Union Centre Boulevard
West Chester
Ohio 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 IEC 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



**UKUK
CANI**

CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK
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SCHEDULE

UK TYPE EXAMINATION CERTIFICATE

**CSAE 21UKEX2289X
Issue 0**

13 DESCRIPTION OF PRODUCT

The FT202 2-Wire Optic Overfill Sensor (Type FT202 ** Two Wire Optic Sensor) provides overfill control for both mobile and permanently mounted liquid storage vessels. The FT202 enclosure is cast aluminium with a 2 inch NPT mounting thread, heavy-duty stainless-steel sections, and various seals. The sensors are installed in a 2-inch NPT tapped hole or 2-3/8 inch hole using the gasket and locking nut provided. The sensor contains a single PCB contained within a fully potted cavity and has 2 permanently connected wires.

The safety description is as follows:

Ui = 18V li = 400mA Pi = 1W Ci = 0µF Li = 0mH

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	01 November 2021	R80086278A	The release of the prime certificate.

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

15.1 As aluminium is used at the accessible surface of this equipment, in the event of rare incidents, ignition sources due to impact and friction sparks could occur. This shall be considered, particularly when the FT202 Sensor is being installed in locations that specifically require Group II, Category 1G equipment.

15.2 The assessed enclosure should not be subjected to strong impact that may lead to high risk of mechanical danger.

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

17.2 The manufacturer shall test 100% of all manufactured units in accordance with the dielectric strength test in EN 60079-11:2012 clauses 6.3.12 and 10.3. 500 Vrms shall be applied between the circuit and the metallic enclosure for a minimum of 60 s; the maximum current flowing shall not exceed 5 mA and there shall be no flashover or breakdown.



Certificate Annexe

Certificate Number: CSAE 21UKEX2289X
Product: FT202 2-Wire Optic Overfill Sensor
Manufacturer: Dixon Bayco

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
10000	1 of 1	D	18 Aug 11	Assy, Optic Head
10081_ATEX	1 of 1	C	18 Aug 11	Schematic, Sensor, 2W ROM Type
10082_ATEX	1 of 1	C	18 Aug 11	Assy, Sensor, 2W ROM Type
10083_ATEX	1 to 2	A	17 Mar 09	PCB, 2W Sensor
10108-ATEX	1 of 1	A	17 Mar 09	ASSY, 2-Wire Sensor
10183	1 of 1	H	28 Jan 20	Sensor Housing – Sand Cast (Machining)
10185	1 of 1	C	08 Oct 21	Sensor Housing Cap (Machining)
10583	1 of 1	G	11 Oct 21	Label. Overfill Sensor FT202 Type
10589	1 to 2	16 Jul 21	11 Oct 21	Instruction Manual 10589 ATEX/UKCA Supplemental Instruction Sheet for Sensors FT202

