

UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

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

- UK-Type Examination Certificate Number:** ITS21UKEX0475 **Issue 00**
- Product:** Group II Ex d Float Switch
- Manufacturer:** AMS Instrumentation & Control Ltd
- Address:** Unit 8b A30 Business Park, Lodge Way Indian Queens, St. Columb, Cornwall, TR9 6FZ, UK
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Approved Body number 0359, 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 report 104886001CHE-001
Dated: 6 January 2022.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-26:2015, EN ISO 80079-36:2016 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- 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.
- The marking of the product shall include the following:



II 2/1 G Ex db h IIC T6...T3 Gb/Ga

Certification Officer: _____

P Moss

Date: _____

13 January 2022

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0475 Issue 00

11. Description of Product or Protective System

The Group II Ex d Flameproof Float Switch is rated up to 440V, 10A and comprises a cylindrical cast body, with integral mounting flange, and cast spigot cover secured by four 20mm long M10 socket head cap screws stainless steel Grade A2-70. Both the body and cover are manufactured from stainless steel Grade 316 C71 to BS3100:1976.

A through hole located centrally in the base of the body give access to a welded tube assembly. The tube assembly comprises a stainless-steel tube having an outside diameter of ½ inch and length up to 18 feet. The tube contains up to three reed switches at discrete positions, each located by insulating sleeving. The point of exit of the wires from the tube is sealed with Polyester resin and Silicone rubber surrounds the wires entering the enclosure body.

A 4-way terminal blocks provided in the enclosure body. Associated with and external to the tube is a captive float on which is mounted the reed switch operating magnet.

Internal and external earthing facilities are provided.

The enclosure is provided with four clearance holes in the integral mounting flange for installation purposes.

A cable entry hole is provided as specified on the certified drawings for the accommodation of a suitable ATEX certified cable entry device, with or without the interposition of a suitable ATEX certified flameproof thread adaptor. The cabling methods used in service must be suitable for the conditions of use.

The temperature class is dependent on the process and ambient temperatures as indicated in the following table:

Temperature Class	Max Liquid Temperature	Max Ambient Temperature	Cable Entry Temperature
T6	70°C	70°C	70°C
T5	85°C	85°C	85°C
T4	120°C	120°C	120°C
T3	150°C	150°C	150°C

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0475 Issue 00

12. Report Number

Intertek Report: 104886001CHE-001 Dated: 06 January 2022.

13. Special Conditions of Certification

(a). Special Conditions of Use

- No Special Conditions of Use

(b). Conditions of Manufacture

- In accordance with Clause 16 of EN 60079-1 each Float Switch shall be subjected to an overpressure test at 38bar for at least 10 seconds.

Results must be recorded.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104886001CHE-001 Dated: 06 January 2022.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
ATEX Nameplate for Group II AMS Flameproof Switch	FS4476	I	06.12.21
ATEX Submission Drawing for Group II AMS Flameproof Switch (Sheets 1, 2 & 4 of 5)	X4039	I	11.11.20
ATEX Submission Drawing for Group II AMS Flameproof Switch (Sheets 3 & 5 of 5)	X4039	J	06.12.21
Installation, Operating & Maintenance Manual	AMS-S-063/DS/07.2021	-	As Stamped
Float Switch Flameproof Cover	FS4407 / FS4408	I	15.12.21
Float Switch Flameproof Body	FS4422 / FS4423	K	15.12.21
ATEX Nameplate for Group II AMS MK10 Flameproof Switch	FS4476-1	B	07.12.21