



EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **Sira 04ATEX2187** Issue: **5**

Equipment: **LR02-IS-L** Float Switch**

Applicant: **Triton Controls Limited**

Address: Unit 2
Randolph Industrial Estate
Evenwood
Bishop Auckland
Co. Durham
DL14 9SJ
UK

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

CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 + Amendments 1 & 2 EN 50020:2002

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

This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:



II 2G
EEx ia IIC T6

Project Number 3654

Signed:
Title: Director of Operations

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 04ATEX2187

Issue 5

13 DESCRIPTION OF EQUIPMENT

The product description is unchanged but is reproduced below for reference.

The LR02-IS-L**M Float Switch (where ** denotes any length of cable up to $20\text{ m} \pm 5\%$) is designed to provide a voltage free contact that is activated by the position of the float switch. It comprises a float chamber, an integral cable and a stabilising weight. The float chamber houses a low-voltage, low-current, single pole, double throw, micro-switch that is totally sealed within a closed cell polyurethane foam insert. This micro switch is activated by a metallic, rolling ball. The stabilising weight is fixed to the integral cable approximately 120mm from the float chamber. The weight cover and the outer enclosure of the float chamber are both made from Hypalon CSP synthetic rubber. The integral cable is coated in vulcanised synthetic rubber. The LR02-IS-L**M Float Switch has the following safety parameters:

$$\begin{aligned}U_i &= 30\text{ V} \\I_i &= 100\text{ mA} \\C_i &= 0 \\L_i &= 0\end{aligned}$$

LR02-IS-L05M 5m $\pm 5\%$ Cable length

LR02-IS-L10M 10m $\pm 5\%$ Cable length

LR02-IS-L20M 20m $\pm 5\%$ Cable length

LR02-IS-L**M (where ** denotes any length of cable up to $20\text{m} \pm 5\%$)

Variation 1- This variation introduced the following changes:

- i. The introduction of a label that allows a distributor's name to be applied to the product and recognises an alternative model number, FL01-IS.

Variation 1 Revision 1- This variation introduced the following changes:

Re-issued 29 March 2005 to correct the list of descriptive documents.

Variation 1 Revision 2 - This variation introduced the following changes:

Re-issued 9 May 2006 to replace previous issue dated 29 March 2005.

Variation 2 – This variation introduced the following changes:

- i. An alternative material to be used in the construction of the float.

Variation 3 - This variation introduced the following changes:

- i. The material used in the Switch Module Case to be changed from polypropylene Type STARYLEN WS30KS34/8 to polypropylene Type STAMYLAN PP56 M10 Natural.

Variation 4 - This variation introduced the following changes:

- i. Modification of adhesive description details.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

This certificate and its schedules may only be reproduced in its entirety and without change

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 04ATEX2187

Issue 5

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	16 Jul 2004	R52A10739A	The release of the prime certificate.
1	22 October 2004	V52V11078A	The introduction of Variation 1. This document was subsequently re-issued 29 March 2005 to correct the list of descriptive documents and 9 May 2006 to replace previous issue dated 29 March 2005.
2	08 February 2006	R52V14468	The introduction of Variation 2.
3	15 November 2006	R52A15541A	The introduction of Variation 3.
4	15 February 2019	R70210304A	This Issue covers the following changes: • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i> • All previously issued certification was rationalised into a single certificate, Issue 4, Issues 0 to 3 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format. • Introduction of variation 4.
5	15th October 2019	3654	• The transfer of certificate Sira 04ATEX2187 from Sira Certification Service to CSA Group Netherlands B.V..

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

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.