[1] **UNITED KINGDOM CONFORMITY ASSESSMENT**

TYPE EXAMINATION CERTIFICATE

[2] **Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696)**

[3] Type Examination Certificate No.: **UL23UKEX2774X Rev. 0**

[4] Product: **Safety Modules**

[5] Manufacturer: **Rockwell Automation**

[6] Address: **1201 S. 2nd St., Milwaukee, WI, 53204 USA**

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

[8] UL International (UK) Ltd 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 **US/UL/ExTR20.0105/02.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN IEC 60079-7:2015/A1:2018**

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the Schedule to this certificate.

[11] This 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 the product shall include the following:

II 3 G Ex ec IIC T4 Gc

Certification Officer
Andrew Moffat

This is to certify that the sample(s) of the Product described herein (“Certified Product”) has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL’s prior written approval.

Date of issue: 2023-07-14

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Schedule
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[15] Description of Product

These products are modular components of the Allen-Bradley PointGuard System. The 1734-IB8S provides 8 inputs and four test outputs. The 1734-OB8S provides 8 outputs and four test outputs. The 1734-IE4S provides four analog inputs and four sensor supply outputs. The 1734-OBV2S provides 2 configurable outputs.
The 1734-IB8S, 1734-IE4S, 1734-OB8S are suitable for use with the following terminal bases:1734-TB, 1734-TBS, 1734-TB3, 1734-TB3S, 1734-TOP. 1734-TOPS, 1734-TOP3, 1734-TOP3S.
The 1734-OBV2S are suitable for use with the following terminal bases: 1734-TB, 1734-TBS, 1734-TOP, 1734-TOPS.

The optical radiation output of the product with respect to explosion protection, according to Schedule 1 clause 16 of the Regulation 2016 No. 1107 (as amended by UKSI 2019:696) is covered in this certificate based on Exception 1] to the scope of EN 60079-28:2015] .

Temperature range:
The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-20 °C to +55 °C	T4

Electrical data

1734-IB8S Series B: Input: 11-30Vdc, 3.5mA @40˚C, SELV
11-28.8Vdc, 3.5mA@55˚C, SELV
Backplane: 5Vdc, 125mA
Field Power: 19.2 – 28.8Vdc, 25mA(No Load), SELV
Output: 19.2 to 28.8Vdc, 700mA@40˚C,2.8A/Module
19.2 to 28.8Vdc, 500mA@55˚C, 0.55A/Module
Operating Temperature: -20˚C to +55˚C

1734-IE4S Series A: Backplane: 5Vdc, 110mA
Voltage Input: +/-10Vdc
Tachometer Input: 0-24Vdc
Current Input: 0-20mA
Field Power: 19.2 – 28.8Vdc, 65mA, SELV
Output: 19.2 to 28.8Vdc, 150mA@55˚C
Operating Temperature: -20˚C to +55˚C

1734-OB8S Series A: Backplane: 5Vdc, 190mA
Field Power: 19.2 – 28.8Vdc, 1.0A, SELV
Output: 19.2 to 28.8Vdc, 1.0A@40˚C,8.0A/Module
19.2 to 28.8Vdc, 500mA@55˚C, 4.0A/Module
Operating Temperature: -20˚C to +55˚C

1734-OB8S Series B: Backplane: 5Vdc, 125mA
Field Power: 19.2 – 28.8Vdc, 50mA(No Load), SELV
Output: 19.2 to 28.8Vdc, 1.0A@40˚C,8.0A/Module
19.2 to 28.8Vdc, 500mA@55˚C, 2.0A/Module
Operating Temperature: -20˚C to +55˚C

1734-OBV2S Series B: Backplane: 5Vdc, 125mA
Field Power: 19.2 – 28.8Vdc, 65mA(No Load),
150VA, SELV
Output: 19.2 to 28.8Vdc, 1.25A@40˚C,2.0A/Module
19.2 to 28.8Vdc, 500mA@55˚C, 0.8A/Module
Operating Temperature: -20˚C to +55˚C
The above models may be followed by a suffix 'K' to denote a conformal coating option

Routine tests
None

[16] Test Report No. (associated with this certificate issue)
The test report no. is provided under item no. [8] on page 1 of this Type Examination Certificate.

[17] Specific conditions of use:

- Provision shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140% of the rated voltage when applied in Zone 2 environments.
- This equipment shall be mounted in an UKEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in EN 60529) and used in an environment of not more than Pollution Degree 2 (as defined in EN 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- This equipment must be used only with UKEx certified Rockwell Automation backplanes.
- Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.
- The instruction in the user manual shall be observed.

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[18] Conditions of certification:
None

[19] Essential Health and Safety Requirements (Regulations Schedule 1)
In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information

The trademark Allen-Bradley will be used as the company identifier on the marking label.

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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
1734-OBV2S Certification Drawing	10002897540	03	2023-03
1734-IB8S Certification Drawing	10002902662	04	2023-03
1734-IE4S Certification Drawing	10002902914	03	2023-03
1734-OB8S Certification Drawing	10002902928	03	2023-03
1734 Wiring Instructions	1734-IN511D-EN-P	-	2022-11
1734 RTB Assembly drawing.	10005883122	00	-

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