

# INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 20.0093X**  Page 1 of 4

Certificate history:

Current Status:

Issue No: 1

Issue 0 (2020-11-30)

Date of Issue: 2022-01-28

**Rockwell Automation** Applicant:

1201 S 2nd St.

Milwaukee, WI, 53204 **United States of America** 

1734 Safety Modules, 1734-IB8S Series B, 1734-IE4S Series A, 1734-OB8S Series ES B, 1734-OBV2S Series B. Equipment:

Models may be followed by a suffix 'K' to denote a conformal coating option.

Optional accessory:

Increased Safety "ec" Type of Protection:

Marking: Ex ec IIC T4 Gc

-20 °C < Ta < +55 °C

Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature:

(for printed version)

Date:

Katy A. Holdredge

Senior Staff Engineer

2022-01-28

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This certificate is not transferable and remains the property of the issuing body.
The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

**UL LLC** 333 Pfingsten Road Northbrook IL 60062-2096 **United States of America** 





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Manufacturer: Rockwell Automation

1201 S 2nd St. Milwaukee, WI, 53204 **United States of America** 

Additional manufacturing

locations:

Rockwell Automation 8440 Darrow Road

Twinsburg, Ohio, OH 44087 United States of America

Rockwell Automation Asia Pacific Business Centre Pte Ltd

No 2 Corporation Road #06-05/10 Corporation Place

618494 Singapore

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017

Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### **TEST & ASSESSMENT REPORTS:**

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR20.0105/00 US/UL/ExTR20.0105/01

**Quality Assessment Reports:** 

GB/ITS/QAR14.0010/06 GB/ITS/QAR14.0014/05 US/ETL/QAR12.0005/08



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#### **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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 that provide 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-TOPS, 1

The 1734-OBV2S are suitable for use with the following terminal blocks and base units: 1734-TB, 1734-TBS, 1734-TOP, 1734-TOPS.

Please see Annex for additional information.

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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 IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in IEC/EN 60529) and used in an environment of not more than Pollution Degree 2(as defined in IEC/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 IECEx/ATEX 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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### **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Addition of alternate manufacturing location.

Annex:

Annex to IECEx UL 20.0093X Issue 1.pdf



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### TYPE DESIGNATION AND PARAMETERS OF SAFETY

Ratings:

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 İnput: +/-10Vdc Tachometer İnput: 0-24Vdc Current İnput: 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.



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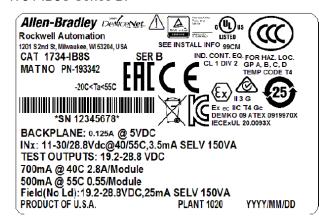
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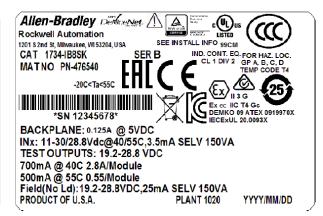
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### **MARKING**

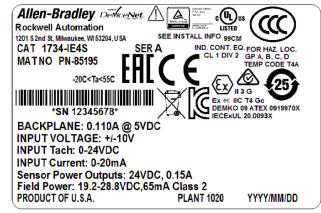
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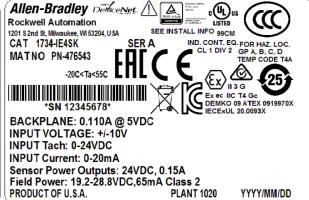
### 1734-IB8S Series B:





#### 1734-IE4S Series A:





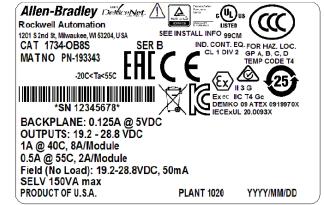


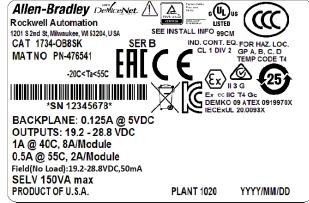
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## 1734-OB8S Series B:





#### 1734-OBV2S Series B:

