



IECEX Certificate of Conformity

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:](#)
Issue 0 (2020-11-30)

Status: **Current** Issue No: 1

Date of Issue: 2022-01-28

Applicant: **Rockwell Automation**
1201 S 2nd St.
Milwaukee, WI, 53204
United States of America

Equipment: **1734 Safety Modules, 1734-IB8S Series B, 1734-IE4S Series A, 1734-OB8S Series ES B, 1734-OBV2S Series B.**
Models may be followed by a suffix 'K' to denote a conformal coating option.

Optional accessory:

Type of Protection: **Increased Safety "ec"**

Marking: Ex ec IIC T4 Gc
-20 °C < Ta < +55 °C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2022-01-28

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2. This certificate is not transferable and remains the property of the issuing body.
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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-TB3S, 1734-TOP, 1734-TOPS, 1734-TOP3, 1734-TOP3S.

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 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.



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

1734-IB8S Series B:

Allen-Bradley DeviceNet

Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
SEE INSTALL INFO 99CM

CAT 1734-IB8S **SER B** IND. CONT. EQ. FOR HAZ. LOC.
MATNO PN-193342 CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4

-20C<Ta<55C

SN 12345678

Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

BACKPLANE: 0.125A @ 5VDC
INx: 11-30/28.8Vdc@40/55C, 3.5mA SELV 150VA
TEST OUTPUTS: 19.2-28.8 VDC
700mA @ 40C 2.8A/Module
500mA @ 55C 0.55/Module
Field(No Ld): 19.2-28.8VDC, 25mA SELV 150VA
PRODUCT OF U.S.A. PLANT 1020 YYYY/MM/DD

Allen-Bradley DeviceNet

Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
SEE INSTALL INFO 99CM

CAT 1734-IB8SK **SER B** IND. CONT. EQ. FOR HAZ. LOC.
MATNO PN-476540 CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4

-20C<Ta<55C

SN 12345678

Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

BACKPLANE: 0.125A @ 5VDC
INx: 11-30/28.8Vdc@40/55C, 3.5mA SELV 150VA
TEST OUTPUTS: 19.2-28.8 VDC
700mA @ 40C 2.8A/Module
500mA @ 55C 0.55/Module
Field(No Ld): 19.2-28.8VDC, 25mA SELV 150VA
PRODUCT OF U.S.A. PLANT 1020 YYYY/MM/DD

1734-IE4S Series A:

Allen-Bradley DeviceNet

Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
SEE INSTALL INFO 99CM

CAT 1734-IE4S **SER A** IND. CONT. EQ. FOR HAZ. LOC.
MATNO PN-85195 CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4A

-20C<Ta<55C

SN 12345678

Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

BACKPLANE: 0.110A @ 5VDC
INPUT VOLTAGE: +/-10V
INPUT Tach: 0-24VDC
INPUT Current: 0-20mA
Sensor Power Outputs: 24VDC, 0.15A
Field Power: 19.2-28.8VDC, 65mA Class 2
PRODUCT OF U.S.A. PLANT 1020 YYYY/MM/DD

Allen-Bradley DeviceNet

Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
SEE INSTALL INFO 99CM

CAT 1734-IE4SK **SER A** IND. CONT. EQ. FOR HAZ. LOC.
MATNO PN-476543 CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4A

-20C<Ta<55C

SN 12345678

Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

BACKPLANE: 0.110A @ 5VDC
INPUT VOLTAGE: +/-10V
INPUT Tach: 0-24VDC
INPUT Current: 0-20mA
Sensor Power Outputs: 24VDC, 0.15A
Field Power: 19.2-28.8VDC, 65mA Class 2
PRODUCT OF U.S.A. PLANT 1020 YYYY/MM/DD



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1734-OB8S Series B:

Allen-Bradley DeviceNet
Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
CAT 1734-OB8S
MATNO PN-193343

SEE INSTALL INFO 99CM
SER B
IND. CONT. EQ. FOR HAZ. LOC.
CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4

-20C<Ta<55C

EAC **CE** **UL** **US** **CCC**
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Ex II 3 G
Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

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BACKPLANE: 0.125A @ 5VDC
OUTPUTS: 19.2 - 28.8 VDC
1A @ 40C, 8A/Module
0.5A @ 55C, 2A/Module
Field (No Load): 19.2-28.8VDC, 50mA
SELV 150VA max
PRODUCT OF U.S.A.

PLANT 1020 YYY/YY/MM/DD

Allen-Bradley DeviceNet
Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
CAT 1734-OB8SK
MATNO PN-476541

SEE INSTALL INFO 99CM
SER B
IND. CONT. EQ. FOR HAZ. LOC.
CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4

-20C<Ta<55C

EAC **CE** **UL** **US** **CCC**
LISTED LISTED LISTED LISTED LISTED LISTED

Ex II 3 G
Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

25

BACKPLANE: 0.125A @ 5VDC
OUTPUTS: 19.2 - 28.8 VDC
1A @ 40C, 8A/Module
0.5A @ 55C, 2A/Module
Field (No Load): 19.2-28.8VDC, 50mA
SELV 150VA max
PRODUCT OF U.S.A.

PLANT 1020 YYY/YY/MM/DD

1734-OBV2S Series B:

Allen-Bradley DeviceNet
Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
CAT 1734-OBV2S
MATNO PN-354932

SEE INSTALL INFO 99CM
SER B
IND. CONT. EQ. FOR HAZ. LOC.
CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4

-20C<Ta<55C

CE **UL** **US** **CCC**
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Ex II 3 G
Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

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BACKPLANE: 0.125A @ 5VDC
OUTPUTS: 19.2 - 28.8 VDC
1.25A @ 40C, 2A/Module, Pilot Duty
0.5A @ 55C, 0.8A/Module, Pilot Duty
Field Power (No Load): 19.2-28.8VDC, 65mA
SELV 150VA maximum
PRODUCT OF U.S.A.

PLANT 1020 YYY/YY/MM/DD

Allen-Bradley DeviceNet
Rockwell Automation
1201 S 2nd St, Milwaukee, WI 53204, USA
CAT 1734-OBV2SK
MATNO PN-476542

SEE INSTALL INFO 99CM
SER B
IND. CONT. EQ. FOR HAZ. LOC.
CL 1 DIV 2 GP A, B, C, D
TEMP CODE T4

-20C<Ta<55C

CE **UL** **US** **CCC**
LISTED LISTED LISTED LISTED LISTED LISTED

Ex II 3 G
Ex ec IIC T4 Gc
DEMKO 09 ATEX 0919970X
IECEXUL 20.0093X

25

BACKPLANE: 0.125A @ 5VDC
OUTPUTS: 19.2 - 28.8 VDC
1.25A @ 40C, 2A/Module, Pilot Duty
0.5A @ 55C, 0.8A/Module, Pilot Duty
Field Power (No Load): 19.2-28.8VDC, 65mA
SELV 150VA maximum
PRODUCT OF U.S.A.

PLANT 1020 YYY/YY/MM/DD