



# 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](http://www.iecex.com)

Certificate No.: **IECEx UL 19.0021X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2019-06-06)

Status: **Current** Issue No: 1

Date of Issue: 2020-11-23

Applicant: **Rockwell Automation**  
1201 South 2nd Street  
Milwaukee, WI 53204 USA  
United States of America

Equipment: **Programmable Controllers - 1756 I/O Modules, 1756-IB16S Series A, 1756-OBV8S Series A (may be followed by K to indicate a conformal coating).**

Optional accessory:

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

Marking: Ex ec IIC T4 Gc  
0°C ≤ Ta ≤ 60°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:

2020-11-23

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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 South 2nd Street  
Milwaukee, WI 53204 USA  
**United States of America**

Additional manufacturing locations: **Rockwell Automation**  
8440 Darrow Road  
Twinsburg, 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 Report:

[US/UL/ExTR19.0024/00](#)

Quality Assessment Reports:

[GB/ITS/QAR14.0010/05](#)

[GB/ITS/QAR14.0014/04](#)

[US/ETL/QAR12.0005/06](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Model 1756-IB16S Series A is a 16-point sinking safety input module. The Model 1756-OBV8S Series A is an 8-point, non-isolated digital safety output module that provides sourcing outputs and bipolar type outputs. All catalog numbers may be followed by an additional suffix "K" designating a UL Recognized conformal coating option.

Modules are for use with following terminal blocks (RTB):

<u>Module</u>	<u>RTB</u>
1756-IB16S	1756-TBCHS, 1756-TBS6HS
1756-OBV8S	1756-TBNHS, 1756-TBSHS

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

- The equipment shall be mounted in an enclosure with a minimum ingress protection rating of at least IP54 in accordance with IEC 60079-7 and used in an environment of not more than Pollution Degree 2 (as defined in IEC 60664-1).
- Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140%.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Adds QAR GB/ITS/QAR14.0014/04 - Rockwell Automation Asia Pacific Business Centre Pte Ltd. No ExTR update for this revision.

**Annex:**

[Annex to IECEx UL 19.0021X Issue 1.pdf](#)



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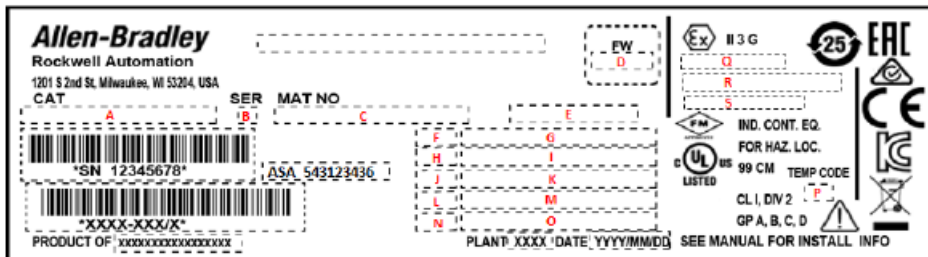
## PARAMETERS RELATING TO THE SAFETY

### Electrical data:

Model	Series	Backplane	Field	Input	Output
1756-IB16S	A	280mA@5.1V dc	18-32V DC 1.8 A SELV/PELV	10...32 V DC 2.5 Ma SELV/PELV 150VA	Test Output (TO): 18-32V dc, 200 mA
1756-OBV8S	A	280mA@5.1V dc	18-32V DC 8.1 A SELV/PELV	N/A	18-32V DC 1 A SELV/PELV 150VA 2.4 A Inrush Pilot Duty

## MARKING

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



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1756-IB16S	A	PN-462361	1.011	0 C ≤ Ta ≤ + 60 C	DC	BP: 280mA @ 5.1VDC	DC	FIELD: 18-32VDC 1.8A SELV	DC	IN: 10-32 VDC @ 2.5mA		SELV 150VA	DC	TO: 18-32 VDC 200mA

A	B	Q	R	S
1756-IB16S	A	Ex ec IIC T4 Gc	DEMKO 19 ATEX 2180X	IECEx UL 19.0021X

A	B	C	D	E	F	G	H	I	J	K	L	M
1756-OBV8S	A	PN-462362	1.011	0 C ≤ Ta ≤ + 60 C	DC	BP: 280mA @ 5.1VDC	DC	FIELD: 18-32VDC, 8.1A SELV	DC	OUT: 18-32VDC 1A		SELV 150VA

A	B	Q	R	S
1756-OBV8S	A	Ex ec IIC T4 Gc	DEMKO 19 ATEX 2180X	IECEx UL 19.0021X

## ROUTINE TESTS

Routine dielectric test shall be conducted in accordance with clause 7.1 of IEC 60079-7.