



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 FMG 14.0029X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 21	Issue 20 (2024-01-26)
Date of Issue:	2024-09-30		Issue 19 (2023-07-25)
Applicant:	Banner Engineering Corporation 9714 Tenth Ave N Minneapolis MN 55441, USA United States of America		Issue 18 (2023-03-17)
Equipment:	Q45AD9ab, Q459Eb, SMI30a, T30AD9FF150, T30AD9FF150Q Photoelectric Sensors.		Issue 17 (2022-09-27)
Optional accessory:			Issue 16 (2022-01-27)
Type of Protection:	Intrinsic Safety		Issue 15 (2021-04-20)
Marking:	MIAD9ab, MI9Eb - Ex ia IIC T5		Issue 14 (2020-12-07)
	Q45AD9ab, Q459Eb - Ex ia IIC T5		Issue 13 (2019-10-17)
	SMI30a - Ex ib IIC T5		Issue 12 (2019-07-08)
	T30AD9FF150, T30AD9FF150Q - Ex ia IIC T6		Issue 11 (2019-01-07)

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

FM Approvals LLC
One Technology Way
Norwood MA 02062
United States of America



BANNER P/N
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Member of the FM Global Group



IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 14.0029X**

Page 2 of 4

Date of issue: 2024-09-30

Issue No: 21

Manufacturer: **Banner Engineering Corporation**
15755 32nd Avenue
Plymouth, Minneapolis, MN 55447
United States of America

Manufacturing locations: **Banner Engineering Corporation**
99 15th Street Northwest
Huron, SD 57350
United States of America

Banner Engineering Corporation
9714 Tenth Ave N Minneapolis MN
55441, USA
United States of America

Banner Engineering Corporation
715 North Country Road
Aberdeen, SD 57401.
United States of America

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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/FMG/ExTR14.0029/00
US/FMG/ExTR14.0029/03
US/FMG/ExTR14.0029/06
US/FMG/ExTR14.0029/09
US/FMG/ExTR14.0029/12
US/FMG/ExTR14.0029/15
US/FMG/ExTR14.0029/18
US/FMG/ExTR14.0029/21

US/FMG/ExTR14.0029/01
US/FMG/ExTR14.0029/04
US/FMG/ExTR14.0029/07
US/FMG/ExTR14.0029/10
US/FMG/ExTR14.0029/13
US/FMG/ExTR14.0029/16
US/FMG/ExTR14.0029/19

US/FMG/ExTR14.0029/02
US/FMG/ExTR14.0029/05
US/FMG/ExTR14.0029/08
US/FMG/ExTR14.0029/11
US/FMG/ExTR14.0029/14
US/FMG/ExTR14.0029/17
US/FMG/ExTR14.0029/20

Quality Assessment Report:

GB/FME/QAR13.0015/09



IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 14.0029X**

Page 3 of 4

Date of issue: 2024-09-30

Issue No: 21

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

SMI30a. Photoelectric Sensor.

a = 6EQ, 6EBQ, 6ECQ, 6EYCQ, AN6RQ, AN6RBQ, AN6RCQ, RN6RQ, RN6RBQ, RN6RCQ, 6EYQ, N6RYQ, AN6RYCQ, RN6RYQ, or RN6RYCQ

MIAD9ab, MI9Eb. Photoelectric Sensors.

a = Sensing mode D, W, F, LV, LVAG, CV, CV2 or R.

b = Connection method Q or blank.

Q45AD9ab, Q459Eb. Photoelectric Sensors.

a = Sensing mode D, DL, F, FP, FV, LV, LP, CV, CV4 or R.

b = Connection method Q or blank

T30AD9FF150, T30AD9FF150Q. Photoelectric Sensor.

The optical radiation output of the apparatus with respect to explosion protection is covered in this certificate based on Exception 1 to the scope of IEC 60079-28:2015.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Parts of the enclosure are non-conducting and may generate an ignition-capable level of ESD.

Cleaning of the equipment shall be done only with a damp cloth.



IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 14.0029X**

Page 4 of 4

Date of issue: 2024-09-30

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor documentation update