



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CSA 16.0050X Issue No: 0 Certificate history:  
Issue No. 0 (2016-12-05)

Status: Current Page 1 of 3

Date of Issue: 2016-12-05

Applicant: Sematex Gr̃un Equipamentos El̃tricos Ltda  
Rua Coronel Trist̃o 203, CEP 02925-030, Sao Paulo  
Brazil

Equipment: Photocell  
Optional accessory:

Type of Protection: Ex db

Marking: Ex db IIC T6 Gb  
Tamb: -40 °C to +70 °C

Approved for issue on behalf of the IECEx  
Certification Body:

Dorin Stochitoiu

Position:

Technical Advisor

Signature:  
(for printed version)

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

CSA Group  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada





# IECEX Certificate of Conformity

Certificate No: IECEX CSA 16.0050X Issue No: 0

Date of Issue: 2016-12-05 Page 2 of 3

Manufacturer: Sermatex Gr $\ddot{u}$ n Equipamentos El $\acute{e}$ tricos Ltda  
Rua Coronel Trist $\tilde{a}$ o 203, CEP 02925-030, Sao Paulo  
Brazil

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements  
Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

*This Certificate does not indicate compliance with electrical 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:

CA/CSA/ExTR16.0055/00

##### Quality Assessment Report:

NO/PRE/QAR16.0039/00



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Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Photocell type SG-EX RFE is designed and intended for installation in category 2G (gas).

The photocell is used to switch lights on or off depending on the light in the surrounding area. It consists essentially of a 2 piece cast aluminum enclosure with integrated bushing, a signal transparent element made of plastic material and the internal control unit.

It is provided with a non-replaceable adapter for cylindrical M32 x 1.5 or 1" NPT threads and it is screwed into a flameproof enclosure or increase safety enclosure in accordance with IEC 60079-0.

For both applications, the photocell shall be tightened and secured against turning and loosening.

Type Code: SGEX-REF-xx

where xx = Thread sizes: - M32 = M32x1.5

-1NPT = 1"NPT

### CONDITIONS OF CERTIFICATION: YES as shown below:

- i. The photocell shall only be installed in Ex d or Ex e enclosures approved according to IEC 60079-1 or IEC 60079-7.
- ii. For installation of the photocell in a flameproof enclosure, the photocell enclosure shall only be threaded in enclosure walls having a minimum length of 8.0 mm, and at least 5 threads engaged according to table 4, from IEC 60079-1.
- iii. For installation of the photocell in an increase safety enclosure, the photocell enclosure shall only be threaded in enclosure wall having a minimum length of 3.0 mm, taking in consideration the mechanical resistance of the enclosure and keeping the minimum required degree of protection.

