



# 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 LCIE 20.0002X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2020-01-23  
Applicant: **SOLOON CONTROLS (BEIJING) CO., LTD.**  
No.15 Xingsheng Street, Economy and Technology Development District, Beijing  
China  
Equipment: **Actuator**  
Optional accessory:  
Type of Protection: **Ex db tb**  
Marking: Ex db IIB T6...T5 Gb  
Ex tb IIIC T85°C Db  
-20°C ≤ Tamb ≤ +55°C (for T6 and T85°C)  
-20°C ≤ Tamb ≤ +60°C (for T5 and T85°C)  
*(See the Annex 01 for the complete marking)*

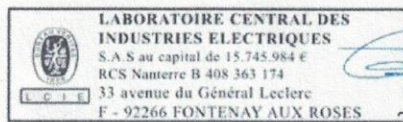
Approved for issue on behalf of the IECEx  
Certification Body:

Certification Officer

Position:

Julien Gauthier

Signature:  
(for printed version)



*Julien Gauthier*  
2020-01-23

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France





# IECEX Certificate of Conformity

Certificate No.: **IECEX LCIE 20.0002X** Page 2 of 3

Date of issue: 2020-01-23 Issue No: 0

Manufacturer: **SOLOON CONTROLS (BEIJING) CO., LTD.**  
No.15 Xingsheng Street, Economy and Technology Development District, Beijing  
China

Additional  
manufacturing  
locations:

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

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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:

[FR/LCIE/ExTR20.0007/00](#)

Quality Assessment Report:

[FR/LCIE/QAR16.0009/02](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx LCIE 20.0002X**

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Date of issue: 2020-01-23

Issue No: 0

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

ExS6061SF Series

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

1. The flame-proof joints cannot be repaired or modified by user.
2. The entry shall be equipped with Ex certified cable glands with a compatible mode of protection for the intended use.
3. When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14, beside of the instruction manual.
4. Repair and overhaul shall comply with IEC 60079-19.

**Annex:**

[Annex 01 to Certificate IECEx LCIE 20.0002X v00\\_1.pdf](#)



# Annex 01 to Certificate IECEX LCIE 20.0002 X issue 00



## FULL EQUIPMENT DESCRIPTION

The ExS6061SF Explosion-proof Actuator is with type of protection "db" and "tb". The lower shell assembly and upper shell assembly form the housing with type of protection "tb". Inside the "tb" housing, there are gears and an enclosure with type of protection "db". The "db" enclosure is composed of a cover and a shell. PCB and motor assembly are installed inside the "db" enclosure.

Two cables are sealed in "db" enclosure and pass through the threaded entry of "tb" housing, the threaded entry should be installed with certified cable gland with protection "Ex tb IIIC Db".

## MARKING

SOLOON CONTROLS (BEIJING) CO., LTD.

Address : ...

Type : ExS6061SF-\*DFK-\*\*

Serial number : ...

Product date : ...

Ex db IIB T6...T5 Gb

Ex tb IIIC T85°C Db

-20°C ≤ T<sub>amb</sub> ≤ +55°C (for T6 and T85°C)

-20°C ≤ T<sub>amb</sub> ≤ +60°C (for T5 and T85°C)

IECEX LCIE 20.0002X

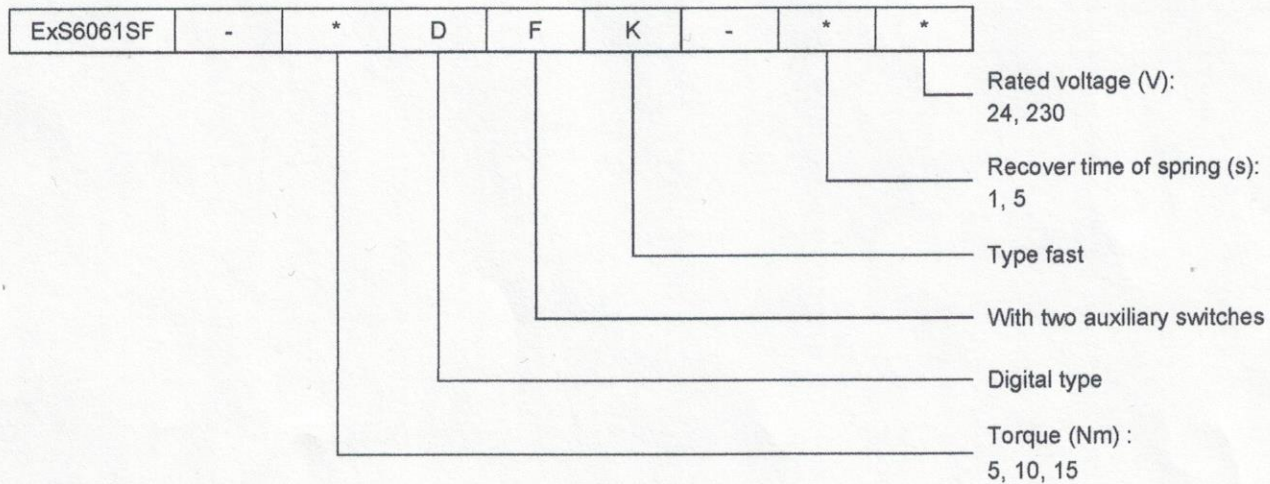
Entry: M16x1.5

IP66

WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

CAUTION - USE FASTENERS WITH YIELD STRESS ≥ 450MPa

## RANGE DETAILS



## RATINGS

The parameters are the followings :

Rated voltage: 24VAC/230VAC, 50Hz/60Hz; 24VDC, 0.2A

#### FULL CONDITIONS OF CERTIFICATION (ou FULL SCHEDULE OF LIMITATIONS)

1. The flame-proof joints cannot be repaired or modified by user.
2. The entry shall be equipped with Ex certified cable glands with a compatible mode of protection for the intended use.
3. When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14, beside of the instruction manual.
4. Repair and overhaul shall comply with IEC 60079-19.

#### ROUTINE TESTS

Each apparatus shall be submitted to batch test under 0.6MPa during minimum 10 seconds according to clause 16.6 of standard IEC 60079-1.

#### APPARATUS OVERVIEW



#### TEST & ASSESSMENT REPORTS

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

Test Report:

FR/LCI/ExTR20.0007/00

Quality Assessment Report:

FR/LCI/QAR16.0009/02