



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 LCIE 13.0050X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2015-02-25)
Issue 0 (2013-10-28)
Date of Issue: 2020-08-28
Applicant: **RUEGER S.A**
Chemin de Mongevon 9
Case postale 98
CH-1023 CRISSIER
Switzerland
Equipment: **Temperature probe type S XX**
Optional accessory:
Type of Protection: **db**
Marking: Ex db IIC T6/T5 Gb

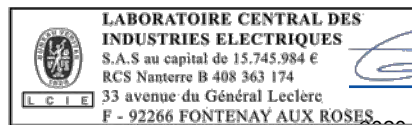
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)



2020-09-28

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 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





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Certificate No.: **IECEX LCIE 13.0050X**

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Date of issue: 2020-08-28

Issue No: 2

Manufacturer: **RUEGER S.A**
Chemin de Mongevon 9
Case postale 98
CH-1023 CRISSIER
Switzerland

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

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:

[FR/LCIE/ExTR13.0045/00](#)

[FR/LCIE/ExTR13.0045/01](#)

[FR/LCIE/ExTR20.0078/00](#)

Quality Assessment Report:

[FR/LCI/QAR11.0018/08](#)



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Certificate No.: **IECEx LCIE 13.0050X**

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Date of issue: 2020-08-28

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description :

The equipment consists of a sensor cable jacketed, with a connection head enclosure certified Ex db IIC Gb.

Connection head enclosure are made of aluminium alloy or stainless steel and certified. Temperature classification in this report is considered only for connection head enclosure.

Type : S XX

S XX (XX = 10, 50, 70)

See the complete description in the attachment N°1.

Electrical parameters :

See attachment N°1 for details

SPECIFIC CONDITIONS OF USE: YES as shown below:

It is the responsibility of the manufacturer or end user to ensure that external source of heating or cooling (if present) does not impact the temperature classification of the equipment.



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Date of issue: 2020-08-28

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Subject of variation:

Issue 01 :

- Add various type of certified connection head.
- Add insert with a diameter of 6mm, 6.35mm and 8mm.
- Modification of the operating ambient temperature (-55°C to +60°C) for the connection head.
- Removing the version d[ja/ib].

Issue 02:

- Addition of flame barrier variant at the head exit for insert diameter 6/6.35/8/9.53/12.7mm.
- Add of the possibility to use the connection head TTE 1xx manufactured by FPL (IECEx CES 14.0005U)
- Modification of the maximum operating ambient temperature from +60°C to +75°C only when using the heads TTE1xx manufactured by FPL (IECEx CES 14.0005U) and GUB manufactured by MAM (IECEx INE 11.0019U).

Annex:

[Annex 01 to Certificate IECEx LCIE 13.0050X issue 02.pdf](#)



Annex 01 to Certificate IECEX LCIE 13.0050X issue 02



FULL EQUIPMENT DESCRIPTION

The equipment consists of a sensor cable jacketed, with a connection head enclosure certified Ex db IIC Gb.

Connection head enclosure are made of aluminum alloy or stainless steel and certified. Temperature classification in this report is considered only for connection head enclosure.

Type : S XX
S XX (XX = 10, 50, 70)

The following connection heads certified as **Ex components** can be used:

Component	Manufacturer	Type	IECEX CoC	Applied standards
Empty enclosures	FPL	TTE200,250,270,280,300, 350,370,380,600,680,700,780;	IECEX CES 14.0006U, Issue No:1	IEC 60079-0:2017 Ed. 7.0 IEC 60079-1:2014 Ed. 7.0
Empty enclosures	FPL	TTE100,160	IECEX INE 14.0005U, Issue No:1	IEC 60079-0:2017 Ed. 7.0 IEC 60079-1:2014 Ed. 7.0
Connection head	LIMATHERM	XD-A**	IECEX FTZU 14.0003U, Issue No:3	IEC 60079-0:2011 Ed. 6.0 (*) IEC 60079-1:2014 Ed. 7.0
Enclosure	MAM	GUB...	IECEX INE 11.0019U, Issue No:3	IEC 60079-0:2011 Ed. 6.0 (*) IEC 60079-1:2014 Ed. 7.0

(*): For certificates with previous edition, a comparative analysis was conducted to study the changes introduced by the new edition of the standard.

MARKING

RUEGER S. A
Address :
Type : S XX (completed by the model)
Serial number :
Year of construction :
Ex db IIC T6 or T5 Gb ⁽¹⁾
IECEX LCIE 13.0050 X
-...°C ≤ T_{amb} ≤ +...°C ⁽²⁾
T. Cable : ...⁽¹⁾

WARNING – DO NOT OPEN WHEN ENERGIZED

⁽¹⁾ : T6 for of ambient temperature -55°C to +60°C. For higher max ambient temperatures see table below :

Temperature class	T6	T6	T5
Process Temperature	400°C	700°C	700°C
Ambient Temperature	-55°C to +75°C	-55°C to +65°C	-55°C to +75°C
T Cable	77°C	None	77°C

⁽²⁾ see table below.

Connecting head	Max Operating ambient temperature range
FPL : TTE1xx	-55°C to +75°C
FPL : TTE2xx,TTE3xx,TTE6xx,TTE7xx	-55°C to +60°C
MAM : GUB...	-55°C to +75°C
LIMATHERM : XD-A**	-50°C to +60°C

Maximum range of the operating ambient temperature



Annex 01 to Certificate IECEX LCIE 13.0050X issue 02



RATINGS

Voltage supply:

- models without transmitter : up to 30V
- models with transmitter: according to the electrical parameter of the used transmitter.

FULL CONDITIONS OF CERTIFICATION

It is the responsibility of the manufacturer or end user to ensure that external source of heating or cooling (if present) does not impact the temperature classification of the equipment.