

France

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

Ex COMPONENT CERTIFICATE

Certificate No .:	IECEx LCI 10.0009U	Page 1 of 4	Certificate history:	
Status:	Current	Issue No: 2	Issue 1 (2015-05-07) Issue 0 (2010-05-11)	
Date of Issue:	2022-10-21			
Applicant:	SIB – Solutions Industry & Building 25 rue Théophile Somborn Boulay-Moselle 57220 France			
Ex Component:	Range of threaded stopping plugs, thread ampl	ifiers and thread reducers in plastic – Type: EEx e	•	
	OT intended to be used alone and requires additi tmospheres (refer to IEC 60079-0).	onal consideration when incorporated into other e	quipment or systems	
Type of Protection:	Ex eb ; Ex tb			
Marking:	Ex eb IIC Gb Ex tb IIIC Db			
	(refer to Annex for full marking)			
Approved for issue or Certification Body:	n behalf of the IECEx	Julien Gauthier		
Position:		Certification Officer		
Signature: (for printed version)	LABORATOIRE CENTRAL DI INDUSTRIES ELECTRIQUES S.A.S au capital de 15.745.984 € RCS Nanterre B 408 363 174	Es authier		
Date: (for printed version)	33 avenue du Général Leclère F - 92266 FONTENAY AUX RO	2022-10-21		
2. This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuing body. enticity of this certificate may be verified by visiting www.iec	ex.com or use of this QR Code.		
Certificate issued	by:	a contraction of the second se	No.	
Laboratoire Ce 33 Avenue du Ge Fontenay-aux-Ro				

CIE



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Date of issue:	2022-10-21	Issue No: 2			
Manufacturer:	SIB – Solutions Industry & Building 25 rue Théophile Somborn Boulay-Moselle 57220 France				
Manufacturing locations:	SIB – Solutions Industry & Building 25 rue Théophile Somborn Boulay-Moselle 57220 France				
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 component 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements				
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"				
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increas	sed safety "e"			
	This Certificate does not indicate compliance with safety and other than those expressly included in the Standa				
TEST & ASSESSMENT REPORTS: A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:					

Test Reports:

FR/LCI/ExTR10.0012/00

FR/LCI/ExTR10.0012/01

FR/LCIE/ExTR22.0066/00

Quality Assessment Report:

FR/LCI/QAR10.0003/14



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Ex Component(s) covered by this certificate is described below:

Range of threaded stopping plugs, thread amplifiers and thread reducers made of plastic having types of protection increased safety "e" and "t".

The stopping plugs are used to close unused entries (plain holes or threaded holes) into the wall of an Ex e or Ex t enclosure. They comprise a hexagonal head and a cylindrical body with an external male thread.

Thread amplifiers and reducers enable adaptation of the thread size and type of a cable gland to the hole (plain or threaded) of the Ex e or Ex t enclosure that will host it.

• Reducers comprise an external male thread and an internal female thread of smaller size.

• Amplifiers comprise an external male thread and an internal female thread of larger size.

The plastic materials used in the construction of the body of the entry device are: Polycarbonate (PC) or Polyamide 6 (PA 6). A locknut in brass is used to mount these entry devices in plain holes. All entry devices comprise a flat seal in neoprene to guarantee the IP when they are mounted on an enclosure.

Range details: Refer to Annex. Ratings: Refer to Annex.

SCHEDULE OF LIMITATIONS:

Refer to Annex for full Schedule of limitations.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Issue 1:

- Normative update according to IEC 60079-0 Ed 6.0 and IEC 60079-31 Ed. 1 standards.
- · Update of marking.
- Update of the applicant's/manufacturer's name.

Issue 2:

- Normative updates according to IEC 60079-0 Ed. 7.0, IEC 60079-7 Ed. 5.1 and IEC 60079-31 Ed. 2 standards.
- Adding of a new plastic material in PC as an alternative to the existing one.
- Update of the applicant's/manufacturer's name.
- Update of the schedule of limitations.

Annex:

Annex 01 to certificate IECEx LCI 10.0009U issue 2.pdf



Annex 01 to Certificate IECEx LCI 10.0009U issue 2



MARKING

Complete marking:

SIB - Solutions Industry & Building Address: ... Type: EEx e Model: *Thread type & size*⁽¹⁾ Serial number: ... Year of construction: ... Ex eb IIC Gb Ex tb IIIC Db⁽²⁾ IECEx LCI 10.0009U -xx °C \leq T_{service} \leq +xx °C⁽³⁾

Allowed reduced marking:

SIB Type: EEx e Model: *Thread type & size* ⁽¹⁾ Ex eb IIC Gb Ex tb IIIC Db ⁽²⁾ IECEx LCI 10.0009U

⁽¹⁾ The model corresponds to the thread type and its size (with the pitch for ISO metric).

⁽²⁾ Ex tb marking does not apply to cable glands with PG thread.

⁽³⁾ See the Ratings below

RANGE DETAILS

The following table details the products and their approved thread size ranges.

Product designation	Male thread	Female thread	
Stopping plug	M12 to M63		
Stopping plug	PG 9 to PG 48		
Deducer	M16 to M63	M12 to M50	
Reducer	PG13 to PG 48	PG 11 to PG 29	
Amplifier	M12 to M50	M16 to M63	
Amplifier	PG 11 to PG 21	PG 13 to PG 29	

RATINGS

Service temperature ranges:

-35 °C \leq T_{service} \leq +90 °C for products in PA 6 (polyamide 6). -35 °C \leq T_{service} \leq +95 °C for products in PC (polycarbonate).

The thread forms and sizes can be:

- ISO metric pitch 1.5 (ISO 965-1 and ISO 965-3), sizes M12 to M63;
- PG (DIN 40430) only for Ex eb application, sizes PG 9 to PG 48.



Annex 01 to Certificate IECEx LCI 10.0009U issue 2



The following table indicates the material of the body of the entry device depending on the thread form.

Material	Stopping plug		Reducer		Amplifier	
	ISO Metric	PG	ISO Metric	PG	ISO Metric	PG
PA 6	Х		Х		Х	-
PC	Х	Х		Х		Х
Note : « X » means that the material is used.						

FULL SCHEDULE OF LIMITATIONS

- a. Service temperature ranges: $-35 \text{ °C} \le T_{\text{service}} \le +90 \text{ °C}$ for products in PA 6 (polyamide 6). $-35 \text{ °C} \le T_{\text{service}} \le +95 \text{ °C}$ for products in PC (polycarbonate).
- b. These entry devices shall only be exposed to a low risk of mechanical danger.
- c. For products with sizes M40 to M63 and PG 36 to PG 48: because it may be a potential electrostatic charging hazard, clean only with a damp cloth.
- d. The mounting instructions of the manufacturer shall be respected.