

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 16.0026X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 2	Issue 1 (2018-06-14) Issue 0 (2016-08-19)
Date of Issue:	2021-06-30		
Applicant:	SIB – Solutions Industry & Building 25 rue Théophile Somborn Boulay-Moselle 57220 France		
Equipment:	Cable glands - Type: CG d *		
Optional accessory:			
Type of Protection:	Ex db ; Ex eb ; Ex tb		
Marking:	Ex db IIC Gb		
	Ex eb IIC Gb		
	Ex tb IIIC Db		
	For full marking, see the Annex		
Approved for issue c Certification Body:	on behalf of the IECEx	Jérôme REYSSON	
Position:		Certification Officer	
Signature: (for printed version)		· REYSSON	
Date:		2021-06-30	
 This certificate and a This certificate is no 	schedule may only be reproduced in full. t transferable and remains the property of the issuing body ienticity of this certificate may be verified by visiting www.ie	cex.com or use of this QR Code.	
Certificate issued	d by:		
Laboratoire Cer 33 Avenue du G FR-92260 Fonte			

C I

France

TM	IECEx Certificate of Conformity						
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Date of issue:	2021-06-30		Issue No: 2				
Manufacturer:	SIB – Solutions Indus 25 rue Théophile Somt Boulay-Moselle 57220 France						
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 Edition:7.0							
IEC 60079-1:2014-00 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 Edition:2	Explosive atmospheres	s - Part 31: Equipment dust ig	gnition protection by enclosure "t"				
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"						
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/ExTR16.003	36/00 F	R/LCIE/ExTR18.0041/00	FR/LCIE/ExTR21.0031/00				
Quality Assessment Report:							

FR/LCI/QAR10.0003/13



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The cable glands type CG d *, made of brass or stainless steel, are intended to be fitted on "Ex d", "Ex e" or "Ex t" enclosures. The sealing rings are made of either Neoprene or Viton.

The cable glands type "CG d 1F" are designed for non-armoured cables.

The "CG d 4F STD" type is designed for armoured cables.

2021-06-30

The cable glands type "CG d 4F DEL" have an additional O-ring compared to the "CG d 4F STD" type.

Full equipment description, range details and ratings are detailed in the Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below: For the models N° 4 to N° 8:

- For the "CG d 1F" type, the user shall ensure adequate clamping of the cable to ensure that pulling is not transmitted to the terminations. •
- The installation shall guarantee that the cable glands CG d 1F of size ISO M12 & 1/4" NPT will be only exposed to a low risk of mechanical danger.
- Service operating temperature ranges: -60 °C \leq T_{service} \leq +80 °C, with sealing ring(s) in Neoprene (black color);

-20 °C \leq T_{service} \leq +200 °C, with sealing ring(s) in Viton (red color).

For the models N° 9 to N° 16:

- · For the "CG d 1F" type, the user shall ensure an adequate clamping of the cable to ensure that pulling is not transmitted to the terminations.
- Service operating temperature range:

-60 °C \leq T_{service} \leq +80 °C, with sealing ring in Neoprene (black color).



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Issue 01:

2021-06-30

- Normative update according to IEC 60079-7, Ed. 5.0 standard.
- Addition of models N° 9 to N° 16 for all types. For these new models only sealing rings in neoprene can be used.

Issue 02:

- Normative update according to IEC 60079-0, Ed. 7.0 and IEC 60079-7, Ed. 5.1 standards.
- Update of the applicant's/manufacturer's name.

Annex:

Annex 01 to certificate IECEx LCIE 16.0026X issue 2.pdf



Annex 01 to Certificate IECEx LCIE 16.0026X issue 2



MARKING

 $\label{eq:complete marking:} \begin{array}{l} \hline Complete marking: \\ SIB - Solutions Industry & Building \\ Address: ... \\ Type: CG d * (1) \\ Model : N^{\circ} ... ; Thread type & size (2) \\ Serial number: ... \\ Year of construction: ... \\ Ex db IIC Gb \\ Ex eb IIC Gb \\ Ex tb IIIC Db \\ IECEx LCIE 16.0026X \\ -xx \ ^{\circ}C \leq T_{service} \leq +xx \ ^{\circ}C \ ^{(3)} \end{array}$

 $\label{eq:sigma} \begin{array}{l} \underline{\mbox{Allowed reduced marking:}} \\ SIB \\ \mbox{Type : CG d }^{* (1)} \\ \mbox{Model : N}^{\circ} \hdots \hd$

⁽¹⁾ Completed as per the type.

⁽²⁾ The model includes a N° (= 4 to 16), and the thread type and its size (with the pitch for ISO metric).

- ⁽³⁾ T_{service} depending on the material of sealing rings:
 - -60 °C \leq T_{service} \leq +80 °C, Neoprene (all models);

-20 °C \leq T_{service} \leq +200 °C, Viton (only for models N° 4 to 8).

RANGE DETAILS

Type designation:

CG d

1F = Cable gland for non-armoured cable 4F STD = Cable gland for armoured cable 4F DEL = Cable gland for armoured cable with additional O-ring

Model designation: it includes the N° and the thread type with its size (with the pitch for ISO metric).

Turne	Model			Model			
Туре	N° ⁽¹⁾	ISO	NPT		N° ⁽¹⁾	ISO	NPT
	4	M12 x 1.5	1/4"		10	M50 x 1,5	1"1/2
		M16 x 1.5	3/8"		11	M63 x 1,5	2"
			1/2"		12	M63 x 1,5	2"
	5	M16 x 1.5	3/8"		12	M75 x 1,5	2"1/2
		M20 x 1.5	1/2"		13	M75 x 1,5	2"1/2
		M25 x 1.5	3/4"			M80 x 2	
CG d 1F	6	M20 x 1.5	1/2"		14	M80 x 2	
CGuir		M25 x 1.5	3/4"			M90 x 2	3"
	7	M25 x 1.5	3/4"		15	M90 x 2	3"
		M32 x 1.5	1"			M100 x 2	3"1/2
	8	M32 x 1.5	1"		16	M100 x 2	3"1/2
		M40 x 1.5	1"1/4				
	9	M40 x 1,5	1"1/4				
		M50 x 1,5	1"1/2				

⁽¹⁾ The "N°" relates to the characteristics of cables specified in the instructions

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This Annex is valid only in combination with certificate mentioned above and may only be reproduced in its entirety and without any change.



Annex 01 to Certificate IECEx LCIE 16.0026X issue 2



Turne	Model			Model			
Туре	N° ⁽¹⁾	ISO	NPT		N° ⁽¹⁾	ISO	NPT
	5	M12 x 1.5	1/4"		11	M50 x 1,5	1"1/2
		M16 x 1.5	3/8"		12	M50 x 1,5	1"1/2
		M20 x 1.5	1/2"			M63 x 1,5	2"
	6	M16 x 1.5	3/8"		13	M63 x 1,5	2"
		M20 x 1.5	1/2"			M75 x 1,5	2"1/2
		M25 x 1.5	3/4"		14	M75 x 1,5	2"1/2
CG d 4F STD &	7	M20 x 1.5	1/2"			M80 x 2	
∝ CG d 4F DEL		M25 x 1.5	3/4"		15	M80 x 2	
CG u 4F DEL	8	M25 x 1.5	3/4"			M90 x 2	3"
		M32 x 1.5	1"		16	M90 x 2	3"
	9	M32 x 1,5	1"		10	M100 x 2	3"1/2
		M40 x 1,5	1"1/4				
	10	M40 x 1,5	1"1/4				
		M50 x 1,5	1"1/2				

 $^{(1)}$ The "N°" relates to the characteristics of cables specified in the instructions

RATINGS

See the range details above.

ROUTINE TESTS

None.

APPARATUS OVERVIEW



CG d 1F



CG d 4F STD



CG d 4F DEL