

IECEx ExTAG Training Workshop Umhlanga, South Africa September 5th, 2016

Use of IECEx Certificates of Conformity

Peter Thurnherr



- Manufacturing (incl. OD 24)
- Service Facility
- Installations
- Accredited Inspection Body

		IEC 60079-17 Edition 5.0 2013-11
	RNATIONAL NDARD	
NOR	ME	
	IEC 60079-14	
ITERNATIONAL TANDARD	Edition 5.0 2013-11	e
ORME ITERNATIONALE	colour inside	469



Documentation – Equipment

The following documents are available for the identification:

 Marking (according IEC 60079-0)

- IECEx Certificate of Conformity (Online system!)
- Instruction manual (according IEC 60079-0)

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ication:					$\langle \mathbf{Y} \mathbf{Y} \rangle$
			x Certificate Conformity		
			ECHNICAL COMMISSION Explosive Atmospheres cheme visit www.iecex.com		Explosionsgeschützte Fluoreszenz-Hand- und Maschinenleuchten Luminaires fluorescents anti-
	Certificate No.: Status:	IECEx BVS 14.0068X	issue No.:0 Certificate history:	NUAL	déflagrants pour l'éclairage de machines et pour baladeuses Explosionproof Fluorescent Hand and
nformity	Date of Issue: Applicant:	2014-07-04 thuba EHB Ltd. Blauensteinerstraße 16 4015 Basel Switzerland	Page 1 of 4	7 ATEX E 164 X	Machine Lamps
	Electrical Apparatus: Optional accessory: Type of Protection:	Hand and machine lamp type "L**d ' Equipment protection by flameproo by enclosure "t"	f enclosures "d", Equipment dust ignition protecti	on	
	Marking: Approved for issue on t	Ex d IIC T5 Gb Ex tb IIIC T95°C Db	nati		
	Certification Body: Position:		tification Body		
	Signature: (for printed version) Date:		A. Lurch.		
	2. This certificate is not 3. The Status and author	chedule may only be reproduced in full. transferable and remains the property of t inticity of this certificate may be verified by	the issuing body. y visiting the Official IECEx Website.	_	Edition March 2008
	Certificate issued by: D	EKRA EXAM GmbH innendahlstrasse 9 44809 Bochum	DEKRA		
L		CE ₀₁₅₈ (Ex) 2	G D 50-400 Hz	1725.2010	
		Typ: ML 70d 55 8		PL55 Watt	thuba Ltd. CH-4015 Basel
		BVS 144TEX E 1 X0 IECEx BVS 104068X	D6 Ex d IIC T5 Gb Ex tb IIIC T95°C D	T20-up to 60°C b IP 6	Made in Switzerland + 41 61 307 80 00 www.thuba.com



EPL	Type of protection	Code	Standard
	Flameproof enclosure	d, db	IEC 60079-1
	Pressurization	p, pxb, pyb	IEC 60079-2
Gb	Powder filling	q	IEC 60079-5
	Liquid immersion	ob	IEC 60079-6
	Increased safety	e, eb	IEC 60079-7



INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (IECEX SYSTEM)

Information 🔻 🛛 Publications 🖵

Members' Area 🤝

Certificates & Licenses 🗢 | Meetings & Events 🗢

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News Releases

Poland to host IECEx event

Third IECEx International Conference to take place in Europe

A

The ultimate safeguard in Ex areas

IECEx is a trusted partner for the Ex industry

Raising awareness on high-risk mining operations

IECEx and AFSEC international seminar in DRC

Lighting up Ex areas

IECEx certifies new generation of LED-based lighting solutions

Global safety and security

IECEx helps minimize risks in the Ex sector

Minimizing risks

IECEx ensures the safety of personnel and



Quick Links

View IECEx Certificates and Licences (CoC Online)

Certification Bodies (ExCBs) - Equipment

Certification Bodies (ExCBs) - Service Facilities

Certification Bodies (ExCBs) - Certified Persons

Certification Bodies (ExCBs) - Conformity Mark

IECEx Recognised Training Providers (RTPs)

ExTAG Decision Sheets List

IFO TOOL & IFOF. Martine Orbertale

Meetings of the IECEx System 2016 Umhlanga, South Africa, 5-9 September 2016

Following the kind invitation received from the South African IECEx National Committee, we are pleased to confirm that the 2016 Annual IECEx Meetings will take place in Umhlanga, (near Durban) South Africa

More information from the meetings website

Featured

Christchurch Meetings Group Photo

Meetings of the IECEx System 2015, Christchurch, New Zealand, 14-18 September

IECEx International Conference was held in Gdansk, Poland, April 2015

IECEx systems endorsed by UNECE

IECEx mobile apps



INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES

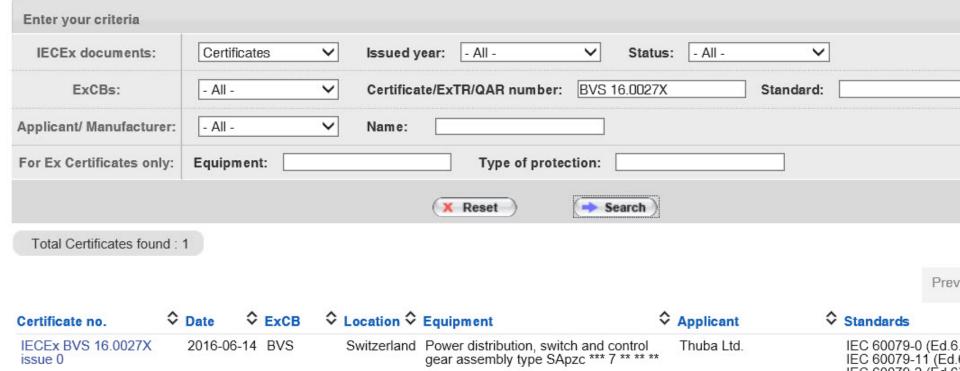
CERTIFIED EQUIPMENT CONFORMITY MARK LICENSES CERTIFIED SERVICE FACILITIES CERTIFIED PERSONS TOOLS

Information

IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System) IECEx Certificates of Conformity Scheme enables: IECEx Certification Bodies to issue new IECEx Certificates On-line. Full Public access to consult, view and print issued IECEx Certificates.

Click here for a link to the INSTRUCTIONS FOR USE.

This facility will be maintained for a short time to allow users to transition to using this new Search Tool page. For any questions, please contact Mr. Chris Agius, IECEx Secretary.







Enter your criteria		
IECEx documents:	Certificates 🗸	Issued year: - All - V Status: - All - V
ExCBs:	- All - 🗸	Certificate/ExTR/QAR number: Standard:
Applicant/ Manufacturer:	- All - 🗸	Name: thuba
For Ex Certificates only:	Equipment:	Type of protection:
		(▼ Reset) (→ Search)

Total Certificates found : 59

Previous	1	2	3	Next

Certificate no.	Date	≎ ExCB		Equipment	Applicant	Standards	Files
IECEx BKI 07.0040X issue 1	2011-09	-21 BKI	Switzerland	Flange heating	Thuba Ltd.	IEC 60079-0 (Ed.4.0), IEC 60079-1 (Ed. 5), IEC 60079-7 (Ed.3)	R
IECEx BVS 09.0039 issue 1	2015-09	-08 BVS	Switzerland	Keyboard type KB 108, type KB 108-TE or type KB 108-TP	3 Thuba Ag	IEC 60079-0 (Ed.6.0), IEC 60079-11 (Ed.6.0)	A
IECEx BVS 12.0019X issue 2	2014-09	-29 BVS	Switzerland	Ex connector type CONeb	Thuba Ltd.	IEC 60079-0 (Ed.6.0), IEC 60079-7 (Ed.4)	R
IECEx BVS 15.0029 issue 0	2015-03	-18 BVS	Switzerland	Machine lamp type ML**tb ** ****	Thuba Ehb Ltd.	IEC 60079-0 (Ed.6.0), IEC 60079-31 (Ed.2)	X
IECEx BVS 14.0026 issue 0	2014-03	-17 BVS	Switzerland	Explosion proof pluggable connection for antenna wires type Nexans ***eb	or Thuba Ltd.	IEC 60079-0 (Ed.6.0), IEC 60079-7 (Ed.4)	A
IECEx BVS 12.0087 issue 1	2014-08	-07 BVS	Switzerland	Pressurized Oil Trace Monitor Type Sigrist OilGuard *Ex	Thuba Ltd.	IEC 60079-0 (Ed.6.0), IEC 60079-11 (Ed.6.0), IEC 60079-2 (Ed.5)	R
IECEx BVS 13.0127X issue 0	2013-12	-13 BVS	Switzerland	Interface module TIF13	Thuba Ag	IEC 60079-0 (Ed.6.0), IEC 60079-11 (Ed.6.0)	A
IECEx BVS 12.0019X issue 1	2014-02-	-04 BVS	Switzerland	Ex connector type CONeb	Thuba Ltd.	IEC 60079-0 (Ed.5), IEC 60079-7 (Ed.4)	۶.
IECEx BVS 13.0024 issue 0	2013-03	-04 BVS	Switzerland	Machine lamp type ML**tc ** ****	Thuba Ltd.	IEC 60079-0 (Ed.6.0), IEC 60079-31 (Ed.1)	A
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IECEx Certificate of Conformity

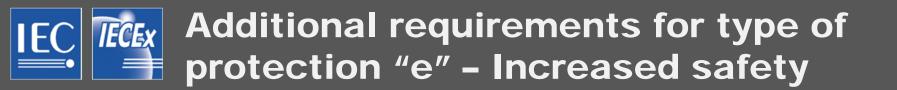
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 16.0026U	Issue No: 0	Certificate history: Issue No. 0 (2016-05-10)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-05-10		
Applicant:	thuba Ltd. Blauensteinerstrasse 16 4015 Basel Switzerland		
Equipment: Optional accessory:	Empty enclosure type eCAM ** ** **		
Type of Protection:	Equipment dust ignition protection by enclosure "t", Equip	ment protection by	increased safety "e"
Marking:	Ex eb IIC Gb Ex tb IIIC Db		

Approved for issue on behalf of the IECEX

H.-Ch. Simanski



15.1 General (IEC 60079-14:2013)

Only Ex "e" equipment having a complete certificate shall be installed.

Ex "e" enclosures and components having only a component certificate, i.e. marked with a "U", shall not be installed in the hazardous area unless part of an assembly of components (now being referred to as an equipment) when the components in the equipment are permitted by a full Ex certificate which may contain an "X" and the equipment label carries full Ex marking including temperature class.





DEKRA



IECEx BVS 16.0027X Annex Page 1 of 3

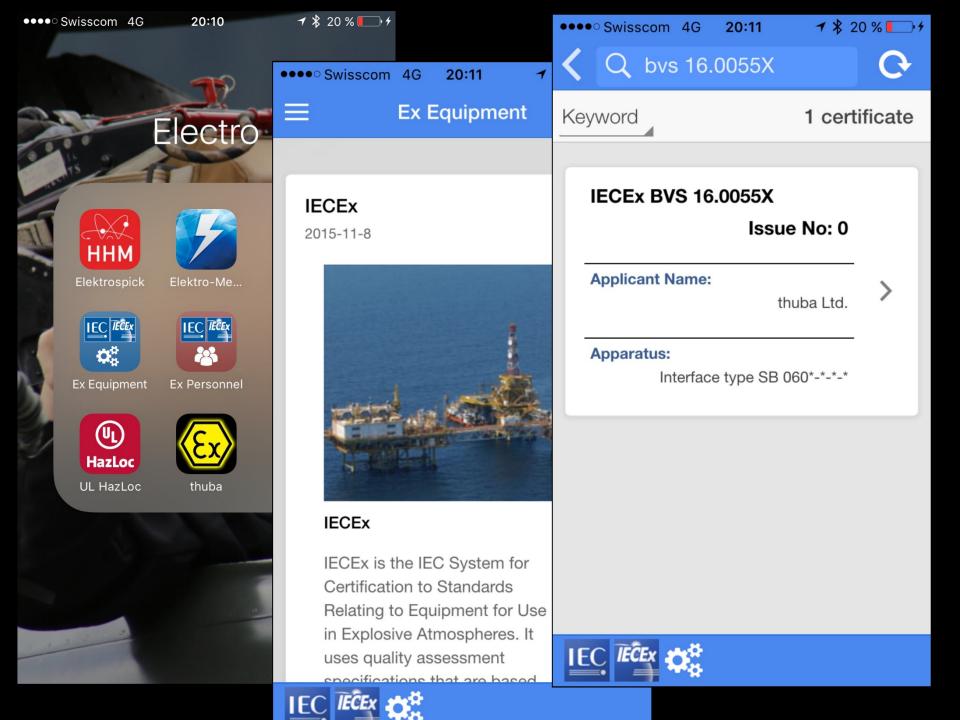
Subject and Type

Power distribution, switch and control gear assembly type SAnA *1) *2) *3) 74) ** ** *5)

- ¹⁾ 3 = Control system 830
 - 4 = Control system 840
- 2) Manufacturer code
- 3) Enclosure material
 - 1: stainless steel
 - 3: polyester
 - 6: aluminium
 - 7: sheet steel
- 4) Variant
 - 7: controls
- ⁵⁾ Dimensions (width, length, height [cm])

Description

The Power distribution, switch and control gear assembly type SApzc *** 7 ** ** consists of a separately certified enclosure or a welded enclosure (stainless steel or sheet steel type pCam ** ***) and is built in type of protection pressurized enclosure "pzc". The enclosure can be equipped with different separately certified or industrial version (only inside of the pressurized enclosure) measurement, control, regulating and switching devices as well as terminals for pop-intripsically safe and intripsically safe circuits.



•••• Swisscom 4G 20:11	┦ 券 20 % ा+
K IECEX BVS 16.0055	x
Status:	Current
Date of Issue:	
	2016-08-31
Issuer:	
DEł	KRA EXAM GmbH
Applicant:	
	thuba Ltd.
Electrical Apparatus:	
Interface	type SB 060*-*-*-*
Type of Protection:	
Equipment protection by	intrinsic safety "i"
Marking:	
	[Ex ib Gb] IIC
	[Ex ib Db] IIIC

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•••• Swisscom 4G 20:12 7 \$ 20 %
IECEx BVS 16.0055X
Applicant:
thuba Ltd.
Electrical Apparatus:
Interface type SB 060*-*-*-*
Type of Protection:
Equipment protection by intrinsic safety "i"
Marking:
[Ex ib Gb] IIC
[Ex ib Db] IIIC
Standards:
IEC 60079-0:2011 Explosive atmospheres -
Edition: 6.0 Part 0: General
requirements
IEC 60079-11: 2011-06 Explosive
Edition: 6.0 atmospheres - Part
11: Equipment protection by intrinsic safety 'i'

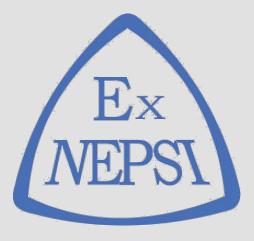






EAC







Who do we issue Certificates of Conformity for?



For the ExCB?



For the manufacturer?



Or maybe for the user after all.



4.4.1.2 IEC standards (IEC 60079-14:2013)

The requirements given in this standard are based on the *current editions of the IEC standards* in the IEC 60079 series. If equipment is not certified in accordance with current editions of the IEC 60079 series it may not be compatible with the requirements given in this standard. It may be required that additional measures should be applied to ensure safe operation.





The manufacturers sell the user an "X" for a "U".





Symbol picture



- IP-Protection, for example IP 6X for Group IIIC
- to use a suitable enclosure
- environmental conditions
- risk of mechanical impact
- to avoid electrostatic charge
- if EPL Gc, pollution degree 2 shall be considered

Marking of the complete equipment? (including enclosure)



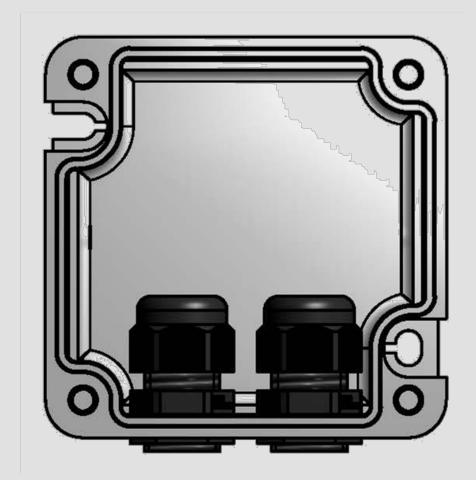
Symbol picture



Types with a low impact force shall be mounted into the enclosure

in such a way that they are mechanically protected against impact force.





Symbol picture



Thank you for your attention!