



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 NEM 09.0002U	Issue No: 5	<u>Certificate history:</u>
Status:	Current	Page 1 of 4	Issue No. 5 (2014-11-13)
Date of Issue:	2014-11-13		Issue No. 4 (2013-08-30)
Applicant:	Barel AS Havneveien 8 N-9917 Kirkenes Norway		Issue No. 3 (2011-03-11)
Electrical Apparatus:	Encapsulated electronic ballast for fluorescent light		Issue No. 2 (2009-09-21)
<i>Optional accessory:</i>			Issue No. 1 (2009-07-03)
Type of Protection:	Encapsulated and Increased safety		Issue No. 0 (2009-05-15)
Marking:	Ex e mb IIC T5 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Bjørn Spongsveen

Position:

Certification Manager, Ex-products

Signature:
(for printed version)

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

NEMKO
Gautadelleen 30
Oslo N-0314
Norway





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Manufacturer: **Barel AS**
Havneveien 8
N-9917 Kirkenes
Norway

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-18 : 2004 Edition:2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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:

[NO/NEM/ExTR09.0004/00](#)

[NO/NEM/ExTR09.0004/01](#)

[NO/NEM/ExTR09.0004/02](#)

[NO/NEM/ExTR09.0004/03](#)

[NO/NEM/ExTR09.0004/04](#)

Quality Assessment Report:

[NO/NEM/QAR08.0001/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Encapsulated electronic ballast for fluorescent light type HFX and HFxE that also includes emergency light. The ballast is for use in equipment with type of protection Ex e. The temperature of the Tc point must not be exceeded. Terminals on ballast are suitable for connection of wires 1.0-2.5mm².

Routine tests :

Routine test that shall be carried out by the manufacturer on all units:
Electric strength test according to relevant parts of clause 9 in IEC 60079-18:2004.
Each ballast shall be subjected to a visual inspection

Further Description in the Annex page 1 and 2.

CONDITIONS OF CERTIFICATION: NO



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

Issue 5 includes DC supply of the HFX 2x18 and 2x36W, 220-250VDC and address change, see Annex to IECEx NEM 09_0002U Issue 5.

Annex:

[Annex to IECEx NEM 09_0002U Issue 5.doc](#)