

## SUPPLEMENT 3 TO EC-TYPE EXAMINATION CERTIFICATE

[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 09ATEX1103U

[15] **Description of Equipment or Protective System**

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 1.0-2.5mm<sup>2</sup>.

This supplement 3 includes DC supply of the HFX 2x18 and 2x36W, 220-250VDC, address change and update to latest harmonized ATEX standards, EN 60079-0:2009 and EN 60079-7:2007 and EN 60079-18:2009.

Marked accordingly:



II 2 G Ex e mb IIC T5 Gb

**Type designations and rating:**

Barel art. No.	Type	Voltage, VDC	Voltage, VAC 50-60Hz	Power factor	Ambient temperature (° C)	Tc point (°C)	Lamps (W, size)
17118	HFX 118 E1004	-	110-127	0.96	-30 to +60	80	1X18, T8
17218	HFX 218 E1004	-	110-127	0.96	-30 to +60	80	2X18, T8
17136	HFX 136 E1004	-	110-127	0.96	-30 to +60	80	1X36, T8
17236	HFX 236 E1004	-	110-127	0.96	-30 to +60	80	2X36, T8
17158	HFX 158 E1004	-	110-127	0.96	30 to +70	85	1X58, T8
16118	HFX 118 E1003	-	220-250	0.96	-30 to +75	85	1X18, T8
16218	HFX 218 E1003	220-250	220-250	0.96	-30 to +75	85	2X18, T8
16136	HFX 136 E1003	-	220-250	0.96	-30 to +75	82	1X36, T8
16236	HFX 236 E1003	220-250	220-250	0.96	-30 to +75	89	2X36, T8
16158	HFX 158 E1003	-	220-250	0.96	-30 to +70	91	1X58, T8
16258	HFX 258 E1003	-	220-250	0.96	-30 to +65	92	2X58, T8
16314	HFX MULTI E1003	-	220-250	0.95	-30 to +70	85	2X14, 2X28, T5
17414	HFX MULTI E1004	-	110-127	0.95	-30 to +70	85	2X14, 2X28, T5

Barel art. No.	Type	Voltage, VAC 50-60Hz	Power factor	Ambient temperature (° C)	Tc point (°C)	Lamps (W, size)	Batt voltage (Vdc)	Battery capacity (Ah)
12718	HFXE 118 E1004	110-127	0.95	-25 to +68	84	1X18, T8	4.8-8.4	4
12728	HFXE 218 E1004	110-127	0.95	-25 to +68	84	2X18, T8	4.8-8.4	4
12726	HFXE 136 E1004	110-127	0.95	-25 to +68	84	1X36, T8	4.8-8.4	4

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12736	HFXE 236 E1004	110-127	0.95	-25 to +58	73	2X36, T8	4.8-8.4	4
12758	HFXE 158 E1004	110-127	0.95	-25 to +68	84	1X58, T8	8.4	4
12018	HFXE 118 E1003	220-250	0.95	-25 to +75	90	1X18, T8	4.8-8.4	4
12618	HFXE 218 E1003	220-250	0.95	-25 to +75	90	2X18, T8	4.8-8.4	4
12036	HFXE 136 E1003	220-250	0.95	-25 to +75	90	1X36, T8	4.8-8.4	4
12673	HFXE 236 E1003	220-250	0.95	-25 to +75	90	2X36, T8	4.8-8.4	4
12058	HFXE 158 E1003	220-250	0.95	-25 to +60	91	1X58, T8	8.4	4
12658	HFXE 258 E1003	220-250	0.95	-25 to +60	91	2X58, T8	8.4	4

[16] Report No. D0000905

Descriptive Documents

Name/Title	Drawing No.	Rev.	Date	Sheets
PCB HFX 205	205	L	27.09.2012	8
SCH HFX 205	SCH 205	L	27-09-2012	1
PCB HFXE 224	224	G	27-09-2012	8
SCH HFXE 224	224	G	27-09-2012	1
Housing HFX	11321153	1	21-08-2013	1
PCX2 Al. Profil	11420441	0	09-12-1996	1
KSTK Hus Nett HFX	11121695	1	26-08-1997	1
KSTK Hus Rør HFX	11121696	0	26-05-1997	1
Housing HFXE	11140556	1	21-08-2013	1
BoM HFX E1003	16236E1003	3	21-08-2013	1
BoM HFX E1004	16236E1004	3	21-08-2013	1
BoM HFX T5	16236T5	3	21-08-2013	1
BoM HFXE E1003	12673E1003	5	21-08-2013	1
BoM HFXE E1004	12673E1004	4	21-08-2013	1
Innstøping av HFXE	I_P402	6	21-08-2013	6
Støping av HFX	I_P404	11	22-08-2013	8
Labels HFX E1003/E1004 T8+T5	LBL HFX E1003/E1004 T8+T5	3	06-11-2014	1
Labels HFXE E1003	LBL HFXE E1003	3	06-11-2014	1
Labels HFXE E1004	LBL HFXE E1004	3	06-11-2014	1

**Routine Test**

Routine test that shall be carried out by the manufacturer on all units:

- Dielectric strength test according to relevant parts of clause 9 in CENELEC EN 60079-18, at 1700VAC.
- Each ballast shall be subjected to a visual inspection.

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Nemko 09ATEX1103U

- [17] **Special Conditions for Safe Use**  
None
- [18] **Essential Health and Safety Requirements**  
See item 9

Oslo, 2014-11-13

**Bjørn Spongsveen**  
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