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## EC-TYPE EXAMINATION CERTIFICATE

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**Equipment or Protective System Intended for use  
in Potentially Explosive Atmospheres  
Directive 94/9/EC**

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EC-Type Examination Certificate Number : **BAS01ATEX2132X**

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Equipment or Protective System: **HDX SERIES SWITCH BOX**

5

Manufacturer: **EL-O-MATIC B.V.**

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Address: **Asveldweg 19, PO Box 223, 7550 AE Hengelo, Holland**

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This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

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The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

**BASEEFA Certification Report No. 00(C)1056 dated 8 May 2001**

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Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014: 1997 + Amds 1 & 2**

**EN 50018: 2000**

except in respect of those requirements listed at item 18 of the Schedule.

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If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

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This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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The marking of the equipment or protective system shall include the following:-

**Ex II 2 G      EEx d IIC T6 (T<sub>amb</sub> = -20°C to +55°C)**

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 1399/01/003

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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**I M CLEAR**  
**DIRECTOR**  
**5 June 2001**



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**Schedule**

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**Description of Equipment or Protective System**

**HDX Series Switch Box** comprises a cast aluminium alloy base with up to three cable entry holes, and either a short or a tall threaded cover. A shaft passes through the base operates a number of various switches at various ratings to form the model references as indicated below.

<b>MODULE</b>	<b>DESCRIPTION</b>	<b>MAXIMUM RATING PER SWITCH</b>
HDX H1	1 X V3 Switch	250 V.a.c. - 5A
HDX H2	2 X V3 Switches	250 V.a.c. - 5A
HDX H3	3 X V3 Switches	250 V.a.c. - 5A
HDX H4	4 X V3 Switches	250 V.a.c. - 5A
HDX H6	6 X V3 Switches	250 V.a.c. - 5A
HDX H2+P	2 X V3 Switches + Potentiometer	250 V.a.c. - 5A
HDX H4+P	4 X V3 Switches + Potentiometer	250 V.a.c. - 5A
HDX PR1	1 X Inductive Switch	30 Vd.c. - 250mA
HDX PR2	1 X Inductive Switch	30 Vd.c. - 250mA
HDX R2	2 X Reed Switches	70 V a.c./d.c. - 100 mA

Internal and external earth facilities are provided.

Cable entry holes are provided as specified on the certified drawings for the accommodation of suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof stopping plugs.

Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC may also be used in the manner specified above.

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**Report No.**

BASEEFA Certification Report No. 00(C)1056 dated 8 May 2001

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**Special Conditions For Safe Use**

The maximum shaft to bushing flamepath gap shall not exceed 0.09 mm.



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**Essential Health and Safety Requirements**

<b>Essential Health and Safety Requirements not covered by Standards listed at (9)</b>		
<b>Clause</b>	<b>Subject</b>	<b>Compliance</b>
1.0.2	Analysis of possible operating faults	Manufacturer's Instructions
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	Manufacturer's Instructions
1.2.2	Components for incorporation or replacement	No user serviceable parts
1.2.4	Dust deposits	Certification for gas atmospheres only
1.2.5	Additional means of protection	Not applicable
1.2.7	Protection against other hazards	BASEEFA Report No. 00(C)1056
1.3.5	Hazards arising from pressure compensation	Not applicable
1.5.	General requirements for safety devices	Not applicable
1.6.1	Manual override	Not applicable
1.6.2	Emergency shutdown	Not applicable
1.6.3	Hazards arising from power failure	Not applicable
1.6.5	Placing of warning devices as parts of equipment	Not applicable
2.0.	Category M	Not applicable
2.1.	Category 1	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 00(C)1056
2.2.2	Category 2D	Not applicable
2.3.	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

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**DRAWINGS**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
321.00.000	1	J	27.6.00	General Assembly - HDX Series Switch Box
321.00.000	2	H	23.04.2001	General Assembly - HDX Series Switch Box
321.00.000	3	K	24.04.2001	Enclosure Details - HDX Series Switch Box
321.00.000	4	C	23.04.2001	Potentiometer and DPS Details
341.77.030	-	E	27.04.2001	Certification Label - HDX Series Switch Box



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**VARIATION 0.1**

Alternatively the enclosure may be fitted with various switch and printed circuit board combinations to form the model references as indicated below.

<b>MODULE</b>	<b>DESCRIPTION</b>	<b>MAXIMUM RATING PER SWITCH</b>
HDX ASI	2X V3 Switches + ASI card	32Vd.c. - 500 mA
HDX PT2	Potentiometer + PT card	27Vd.c. - 50 mA
HDX DPS	2X V3 Switches + DPS card	27Vd.c. - 252 mA

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BASEEFA List Keywords  
2MONITOR