



[1] **EC-TYPE EXAMINATION CERTIFICATE**



[2] **Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 94/9/EC**

[3] **EC-Type Examination Certificate Number: DEMKO 02 ATEX 132218**

[4] **Equipment: Optoelectronic Encoder**

[5] **Manufacturer: Scandinavia Construction Comp. A/S**

[6] **Address: Tranevang 1, 3450 Allerød, Denmark**

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

[8] UL International Demko A/S, notified body number 0539 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 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 no. 132218-01

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014: 1997 E incl. A1+A2    EN 50018: 2000 E    EN 50281-1-1: 1998**

[10] 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.

[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment or protective system shall include the following:

**Ex II 2 G/D    EEx d IIB T6**

On behalf of UL International Demko A/S

Herlev, 2002-12-19


  
Karina Christiansen  
Certification Manager

**UL International Demko A/S**

Lyskaer 8, P.O. Box 514  
DK-2730, Herlev, Denmark  
Telephone: +45 44856565  
Fax: +45 44856500

Certificate: 02 ATEX 132218

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

 A Subsidiary of  
**Underwriters  
Laboratories Inc.®**

P1



### Schedule

[13]

[14]

#### EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 02 ATEX 132218

[15]

Description of Equipment:

The optoelectronic encoder is mounted with permanently connected cable for use in the hazardous area, the encoder is mounted in a "d" enclosure. The encoder can be delivered as a 2 or 3 canal encoder.

Installation instructions

All cable entry devices and blanking elements shall be certified in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.

Unused apertures shall be closed with suitable blanking elements.

[16]

Report No.

Project Report No.: 132218-01

Drawings:

Number	Date	Description
01-4-3110	2002-09-16	EEx-2D marking plate
01-4-3112	2002-10-10	EEx-2D numbering plate, type & manufacturing
01-3-7190	2002-11-12	EEx-2D 1/2/3D mech. Assy
01-2-3096	2002-09-09	EEx-2D housing
01-3-3102	2002-09-09	EEx-2D cover
01-4-3113	2002-09-10	EEx-2D assembl. Screw
01-4-3106	2002-09-16	EEx-2D shaft
01-4-3107	2002-09-10	1G 2D EEx (d)/2REX cable gland
01-4-3108	2002-09-10	EEx-2D cable gland insert
01-4-3104	2002-09-23	EEx-2D disc carrier
01-4-3115	2002-09-10	EEx-2D torque amplifier
01-2-0049	2002-12-04	EEx-2D without R/T Housing
01-3-0050	2002-12-04	EEx-2D without R/T Housing

[17]

Special conditions for safe use:

None.

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

**UL International Demko A/S**

Lyskaer 8, P.O. Box 514  
DK-2730, Herlev, Denmark  
Telephone: +45 44856565  
Fax: +45 44856500

Certificate: 02 ATEX 132218  
Report: 132218-01

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



A Subsidiary of  
**Underwriters  
Laboratories Inc.**

P 2 / 3



## Schedule

### EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 02 ATEX 132218

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

The certificate entitles the licensee to provide the product with the registered mark .

On behalf of UL International Demko A/S

Herlev, 2002-12-19

  
Karina Christiansen  
Certification Manager

**UL International Demko A/S**

Lyskaer 8, P.O. Box 514  
DK-2730, Herlev, Denmark  
Telephone: +45 44856565  
Fax: +45 44856500

Certificate: 02 ATEX 13218  
Report: 132218-01

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



A Subsidiary of  
**Underwriters  
Laboratories Inc.**<sup>®</sup>

P 3 / 3