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### EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 05 ATEX 140087

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#### Description of Equipment or protective system

These devices are encoders that are rotational transducers that convert an angular movement into a series of electrical digital impulses. They are supplied by a limited voltage/current circuit rated 30 Vdc max and 0.5 amps. The device consists of a body and threaded cover with shaft extending through body. The mating parts are intended to be both explosion-proof and flame-proof. The cable entry into the cover may be axial or longitudinal.

Nomenclature for type TI series: TIAEEX... refers to absolute encoders. The suffix P indicates that the unit is programmable. TIEEX... refers to incremental encoders. The suffix W indicates a hollow shaft

#### Temperature range:

The ambient temperature range is -20 °C to +40 °C.

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-20 °C to +40 °C	T6

#### Electrical data:

30 V dc, 0.5 amp

#### 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.

For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

#### Mounting instructions

Refer to Installation Manual and Safety Instructions

#### Routine tests

Routine tests according to EN 50018 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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#### Report No.

Project Report No.: 140087-01 (Hazardous Location Testing)

### UL International Demko A/S

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

Certificate: 05 ATEX 140087

Report: 140087-01

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### Drawings:

Number	Date	Description
A110100, rev. 2	13-09-2005	TIAEEx70W body
A110110, rev. 3	25-11-2005	TIAEEx70W cover axial version
A110120, rev. 3	25-11-2005	TIAEEx70W cover axial version
A110130, rev. 3	25-11-2005	TIAEEx70W lateral version
A110140, rev. 3	25-11-2005	TIAEEx70W Assiale
A110220, rev. 2	12-09-2005	TIAEEx70W albero cavo
A110260, rev. 8	25-11-2005	TIAEEx70W lateral version
A110270, rev. 7	25-11-2005	TIAEEx70W lateral version
A110280, rev.6	25-11-2005	TIAEEx70W lateral version
A110290, rev. 3	25-11-2005	TIAEEx70W Assiale
A110300, rev. 4	25-11-2005	TIAEEx70W axial version
A110310, rev. 3	25-11-2005	TIAEEx70W Assiale
A110380, rev. 3	25-11-2005	TIAEEx70W lateral version
A110390, rev. 2	25-11-2005	TIAEEx70W Assiale
A120000, rev. 8	25-11-2005	TIAEEx70 lateral version
A120010, rev. 2	13-09-2005	TIAEEx70 body
A120020, rev. 5	14-11-2005	TIAEEx70 body
A120030, rev. 4	14-11-2005	TIAEEx70 shaft
A120050, rev. 8	25-11-2005	TIAEEx70 lateral version
A120060, rev. 10	25-11-2005	TIAEEx70 lateral version
A120070, rev. 7	25-11-2005	TIAEEx70 Assiale
A120080, rev. 6	25-11-2005	TIAEEx70 axial version
A120090, rev. 5	25-11-2005	TIAEEx70 Assiale
J340000, rev. 6	11-11-2005	Nameplate drawing
J340020, rev. 3	12-09-2005	TIEEx70W plug axial version
J340040, rev. 5	25-11-2005	TIEEx70W lateral version
J340070, rev. 2	02-04-2005	TIEEx70W tappo coperchio
J340230, rev. 3	25-11-2005	TIEEx70W Assiale
J340290, rev. 4	25-11-2005	TIEEx70W Assiale
J340300, rev. 7	25-11-2005	TIEEx70W lateral version
J480020, rev. 3	20-10-2005	TIEEx70 plug
J480030, rev. 4	14-11-2005	body Albero 10 dia.
J480040, rev. 4	14-11-2005	Body Albero 11 dia.
J480050, rev. 5	25-11-2005	TIEEx70 Assiale
J480060, rev. 8	25-11-2005	TIEEx70 lateral
M030610, rev. 1	23-05-2001	Portadisco

[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

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## EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 05 ATEX 140087

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.

On behalf of UL International Demko A/S

Herlev, 2005-12-14

Karina Christiansen  
Certification Manager



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Lyskaer 8, P.O. Box 514  
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