



IP 66/67 - M/S

Heavy Duty Construction

5000 Pulses/Rev., 300 kHz max.

4,75 - 30 Volts, RS 422 Compatible



APPROVALS/CERTIFICATIONS

Certification Number	DEMKO 02 ATEX 133213X
	EX I/II G D
EN 50014	1197 E incl. A1+A2
EN 50018	2000E
EEx d IIC T6	(Tamb +60°C)
EEx d IIC T4	(Tamb +100°C)
	FFx d I

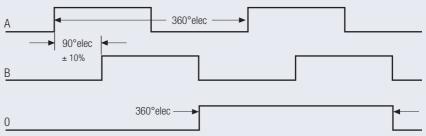
ELECTRICAL SPECIFICATIONS

Supply Voltage	4.75 - 30 V DC
Current Consumption	40 mA (max)
Output Circuit	Push-Pull, RS 422A
Impulse Frequency	300 kHz (max)
Logic Level (high)	Vcc - 0.7 Volt
Logic Level (low)	0.25 Volt (max)
Short Circuit Protection:	100 %
Cable	Mechanically and Chemically Resistant Flame Retardant – Screened

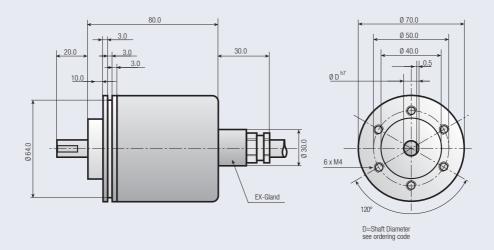
MECHANICAL SPECIFICATIONS

Cover	316 Stainless Steel
Body	316 Stainless Steel
Shaft	316 Stainless Steel
Speed	6000 RPM (max)
Torque	> 0.4 Nm
Loading	Axial 60 N, Radial 50 N
Protection	IP 66/67 – M/S
Temperature	-20°+70°C (-4°+158°F)
Weight	(2.866 lb) 1300 g

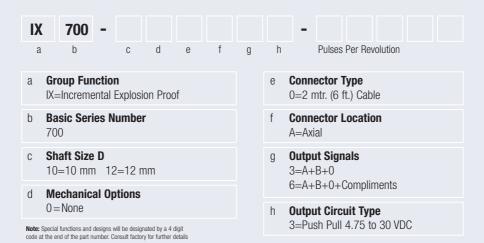
OUTPUT SIGNALS



Drawing available as: dxf, iges, step, sld file



ORDERING CODE



CONNECTIONS

Function	Cable Number Code			
0 Volt + Volt	#1			
+ Volt	#2			
A	#3			
В	#4			
0	#5			
Ā	#6			
Ē	#7			
Ō	#8			



IH

M

Northwester Number 82 ATEX Q133816 Di. Equipment or Protection System or Components as level Manufacture of Shaft Exceluse with the following protection principles Hamppool Facilities "A" [4] W+5 Melispanne GmbH. Hambelsberede 11 78549 Spainbinger Germany 191 Applicant Manufacturer Same or applicant 144 UL International Details A/S sectified body number 9539 for Assets VI in accordance with Article 9 of the Council Diseases 9459 fC of 25 March 1994, section to the applicant that the actual mutualization law a production quintry system which compiles to Assets VI of the Direction. m This norticesion is based on scale report No. Q13816-01 decad 2003-13-27. This norticesion can be withdrawn if the monofactures as longer serialise the experiments of Annex VI. The Mandecouse is obliged to inform II. International Decade A/S of very change in their DiO 9001-2000 regionarium no other aspects open which this nortification has been given. 181 Results of periodical re-assument of the quality system are a part of this positivate This motification is railed useful 2003-01-07 and use be withdrawn if the Manufacturer does not untilly the production quality among and use be withdrawn if the Manufacturer does not untilly the production quality among

[10] According to Article 18(1) of the Directive 94/9 EC the CE marking shall be followed by the abortification number 95/9 identifying the sortfield holy involved in the production control.

Reduce HATTE QUINN The autilization may only for reproduced in terrocoms and entires any change

Ox Johalf of UE International Detrilor A/S

F. Muslingt Brown Landy

III PRODUCTION QUALITY ASSURANCE NOTIFICATION passes or Protective System introded for our in Protectially Explosive Assemplaces Directive 94/9/EC

CERTIFICATE OF CONFORMITY

Contilione No. SI E. LISTETK ± 5. This section is issed for Shaft Exceden

Type

W-S Melisyanes Gestell, Humbelstrande 11, D-78549 Speichingen, Germany.

Serve as manufacture

This electrical apparatus and any acceptable variation therets is specified in the Appendix to this perifferent and the documents therein related to . 5.

Ut. International Densits AN being an Approval Confliction Body in accordance with Article 14 of the Council Discrete of the European Communics of 18th December 1975, document NV117EEC studies that the appearant has been found to couply with the homocontel European Burelands

EN 10014-1712 E EN 10018-1714 E

2. The appareus marking shall include one of the codes:

He d I
 He d IIC TH (Tenh, 6PC)
 He d IIC TH (Tenh, 18PC)

- The applies of the electrical appearance beloved to in this sentilizate has the sequentiality to excess that the appearance confinence to the appearance build stress in the Appendix or this certificate and has satisfied resolve restlications and twee specified descrip.
- The appears may be enaled with the Distractive Community Math specified in Assert II to the Countil Directive of 16 January 1784. document 94/45/13/C. A facilitate of this most is printed at the top of this sections. The marking of the equipment shall be visible, highly and shoulds.

On behalf of US Insuranismal Drinks AVS

Holes, 17, Separater 2001



SE, International Demko A/S

121

Holes, 2002-12-19



III EC-TYPE EXAMINATION CERTIFICATE

Equipment or Promotive System introduct for use in Protestially Explosive Attemptons Directive 96/9/EC



[5] EC-Type Experimenton Corollicate Number: DEMECO 40 ATTOX 1350/10X

[5] Manufactures W + 5 Melloymme Gold H

[6] Address Humbelsbesselle 11, 2010 Speichingen, Germany

[6] Equipment or Prosective System 3790 Shaft Exceden

171 This equipment or promotive system and any acceptable variation there is is qualified in the admittale on this sentileses and the documents therein referred to

UL International Dentke A/S, southed body number 9309 in accordance with Article 9 of the C. Classicies 9409/EC of 13 March 1994, carolins that this opplyment or promotion spoons has been found to comply with the Essential Health and Solicy Requirements relating to design sed construction of repulsaemes and presentive systems intended for use to presentially explosive arounghous given in Assets 2 to the Discretive. 181

The reasolution and not results are recorded in confidencial report no. 135213

Compliance with the Essential Health and Salvey Requirements has been accord by or EN 50014: 1997 E incl. A1-A2 EN 50018: 2000 E out.

[18] If the sign 'X' is placed after the confinent number, is indicates that the equipment or pron-grams is adopt to special conditions for safe use specified in the schedule to the comficer.

[35] The ECType examination conflicts relate only to the design, examination and non-of-the-qualified applicance or parameter system is accordance to the Districts PACHE.

Further requirements of the Districts apply to the manifesting process and supply of this applyment or presenting system. There are not covered by this settlices.

[12] The marking of the equipment to promotive system shall include the following

On behalf of LS, International Denko A/S

@ MEEGD HEADETS (Tech + 60°C) TS (Tech + 100°C)

Dis d I

Harley, 2003-01-16.

Kanna Ominianan Certification Manager

UL International Demko A/S

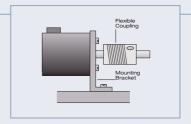
Cordon N 4707 (1011) The artificial that only to improduced to the series and without art change, whether contains (I) Underwriters Laboratories Inc.

MECHANICAL INSTALLATION

RECOMMENDED MECHANICAL INSTALLATION

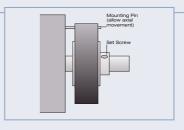
1. Shaft Encoders

- a. mount encoder to mounting bracket.
- b. install coupling to shaft encoder.
- c. align encoder and coupling to drive shaft.
- d. mount bracket to machine assembly.
- e. check alignment is correct.
- f. tighten all screws.



2. Hollow Shaft Encoders

- a. mount pin to machine assembly.
- b. install encoder to shaft of the machine.
- c. use mounting pin to stop encoder from rotating.
- d. check if mounting pin allows axial movement of the optical encoder.
- e. check alignment is correct.
- f. tighten all set screws.



CAUTION

All encoders produced by the GES*group* are designed to be reliable, rugged and easy to install. Should you require clarification on any of these instructions, please contact the nearest GES*group* company (See back cover page).

Caution! Any of these actions my cause damage to the product.



Do not shock the encode



Do not subject the encoder to axial or radial stress



Do not dismantle the encode







Do not use makeshift techniques to mount the encoder