



**INDUSTRIAL ENCODERS
FOR AUTOMATION**



**elcis
encoder**



elcis encoder

NEW!

LINEE PRODOTTI PRODUCT LINES



elcis

SENSORI DI ELEVATA
QUALITA' E CUSTOM

HIGH QUALITY AND
CUSTOM SENSORS



SENSORI MODULARI,
IN KIT E LOW-COST

MODULAR, KIT AND
LOW-COST SENSORS

elcis encoder s.r.l. - Via R. Luxembourg, 12/14 - P.O.Box 70 - 10093 Collegno (TO) Italia - ☎ +39 011 715577/8 - 📠 +39 011 712613 - 🌐 www.elcis.com

NEW COMPACT INCREMENTAL ENCODERS SERIES "50" FOR INDUSTRIAL AUTOMATION

Since 39 years ago, **ELCIS ENCODER** builds and commercializes rotary shaft encoders and linear transducers, exporting them all over the World.

Among the latest novelty, **ELCIS ENCODER** has carried a **new range of incremental encoders Ø50 mm** for industrial automation. These **new incremental encoders for industrial automation** by **ELCIS ENCODER**, despite the compact dimensions, show high sturdiness and high reliability.

Particularly studied for applications on motors, they may be used in almost any kind of industrial applications, especially where compact dimensions are required. These **new encoders series "50"** by **ELCIS ENCODER** are available with up to 25.000 ppr and with the most important electronics outputs in order to meet almost all the Customers' needs.

They are available in four main model lines:

- **model 50C** with hollow shaft $\varnothing 6\div 8$ mm, equipped with a spring coupling. Fitted to be used on motors.
- **model 50S** with "servo-mount" mounting flange and solid shaft $\varnothing 6\div 12$ mm. Standard item for most European CNC manufacturers for general purposes.
- **model 50ZA** with spring coupling inside and pass-through shaft $\varnothing 6\div 8$ mm. Supplied with **frontal stop collar** to be fixed on the motor shaft. Designed for use on motors.
- **model 50ZB** with spring coupling inside and pass-through shaft $\varnothing 6\div 8$ mm. Supplied with **rear stop collar** to be fixed on the motor shaft. Designed for use on motors.

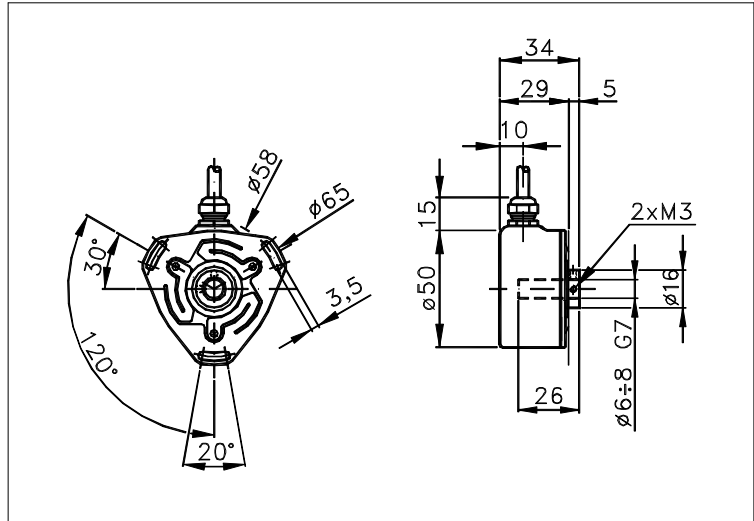
Just like all the other **ELCIS ENCODER** products, this new range of **compact incremental encoders for industrial automation** shows a very high manufacturing quality degree as they are manufactured in accordance with UL standards and the UNI EN ISO 9001:2008.

Our Technical Office is available for any explanation or any additional information.



50C

Family: I
page: 05. 50C 1/2
data sheet . II 219 E00



- Base: ALUMINIUM	(*)	- MTTFd (°°).....: HIGH	
- Cover: ALUMINIUM	(*)	- Impact resistance: 50 G x 11ms	
- Weight: 290 g		- Vibration resistance ..: 12 G (10 ÷ 2000 Hz)	
- Shaft: Ø 8 HOLLOW STAINL.STEEL	(*)	- Power supply: 5÷30V	(see page 2)
- Max.rad/axial load .: 2,5 kg		- Operating temperature ..: -30÷85 °C	(*)
- IP output side .(°).. - IP shaft side ..(°)>	see 'CONNECTION' of page 2	- Storage temperature ...: -30 ÷ 85 °C	
opt. type (page 2)>	std. 65 sealed 66 low torq. 53	- N° of pulses/rev: 1 ÷ 25000	(*)
	standard Z B	- Max frequency: 100 kHz (300 option)	
- Contin. max RPM (**)>	8000 3000 12000	- Max consumptions mA ..: std 120 line driver 180	(*)
- Starting torque gcm >	20 40 12		

(°) IP according to CEI EN 60529, EN 60529, IEC 529	(°°) MTTFd according to EN ISO 13849-1
(*) custom options	(**) intermittent max RPM + 30% of continuous max RPM

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	30						10
Q	NPN OPEN COLL	10		(only 5V,1030/5V)							
R	NPN	70	Z	DRIVER ET7272	30						
P	NPN OPEN COLL	70									
U	PNP	70									
B	PNP OPEN COLL	70									
H	PUSH-PULL PRO	70									
	PUSH-PULL	70									
	(S)			A (S)			(S)			(S)	
	A			A							
	B			A							
	C			B							
				B							
				C							
				C							

(§) Clock-wise output rotation (see shaft).



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Possible Options				Possible Connections									
Code	Description	Code	Description	Cable								Output:	
Z B	Sealed ball bearing Low torque ball bear.	J	Zero logic combination	CV								AX RAD	
				CONNECTOR								OUTPUT:	
S W	160 KHz frequency 300 KHz frequency	K	Invert. phase A,B,Zero.										
				Cable End Connector								OUTPUT:	
X	Custom options			VM	TM	VL	TL	VD	VH	VH5	VI	AX RAD	
				VE	VK	TK	VN	VH6	VM5	VM9	VS		
				VD5									
				Terminal Box								OUTPUT:	

ORDERING INFORMATION

[illegible]

- (1) For further information see PULSES/REVOL. data sheet
- (2) For further information see ELECTRONIC data sheet
- (3) For further information see CONNECTION data sheet

Product manufactured according to UNI EN ISO 9001:2008,
supplied with CHECKING and CONFORMITY
declaration with CE mark and with TWO (2) YEARS
WARRANTY starting from delivery date.

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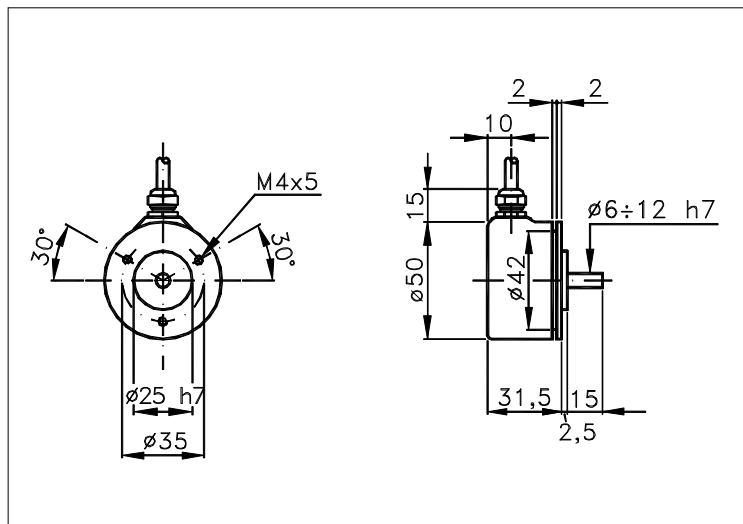
INCREMENTAL ENCODER

50S

COMPACT ENCODER WITH 'SERVO-MOUNT' MOUNTING FLANGE.
STANDARD ITEM OF MOST EUROPEAN CNC (COMPUTERIZED NUMERICAL CONTROL)
MANUFACTURES FOR GENERAL PURPOSE.

Family: **I**
page: 02. 50S 1/2
data sheet . II 218 E00

Sized draw standard version: CV Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | |
|---|---|
| - Base.....: ALUMINIUM (*) | - MTTFd (°°).....: HIGH |
| - Cover.....: ALUMINIUM (*) | - Impact resistance.....: 50 G x 11ms |
| - Weight.....: 300 g | - Vibration resistance.: 12 G (10 ÷ 2000 Hz) |
| - Shaft.....: Ø 6 STAINLESS STEEL (*) | - Power supply.....: 5÷30V (see page 2) |
| - Max.rad/axial load.: 3 kg | - Operating temperature: -30÷85 °C (*) |
| - IP output side.(°): see 'CONNECTION' of page 2 | - Storage temperature...: -30 ÷ 85 °C |
| - IP shaft side..(°).> std. 65 sealed 66 low torq. 53 | - N° of pulses/rev.....: 1 ÷ 25000 |
| opt. type (page 2).> standard Z B | - Max frequency.....: 100 kHz (300 option) |
| - Contin. max RPM(**)> 8000 3000 12000 | - Max consumptions mA.: std 120 line driver 180 (*) |
| - Starting torque gcm> 18 30 8 | |

(°) IP according to CEI EN 60529, EN 60529, IEC 529

(*) custom options

(°°) MTTFd according to EN ISO 13849-1

(**) intermittent max RPM + 30% of continuous max RPM

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	30						10
Q	NPN OPEN COLL	10		(only 5V, 1030/5V)							
R	NPN	70	Z	DRIVER ET7272	30						
P	NPN OPEN COLL	70									
U	PNP	70									
B	PNP OPEN COLL	70									
H	PUSH-PULL PRO	70									
	PUSH-PULL	70									

(S) Tolerance between phases ± 25°, symmetry ± 15°

(S) Clock-wise output rotation (see shaft).

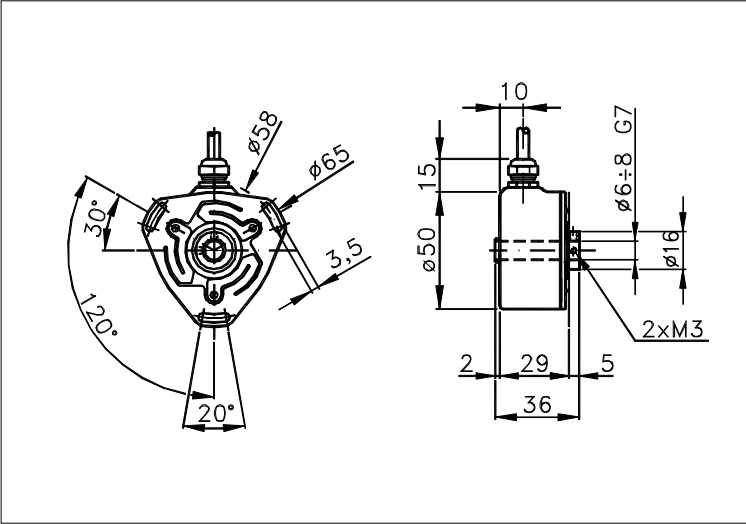


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INCREMENTAL ENCODER 50ZA	ENCODER WITH SPRING COUPLING INSIDE AND PASS.THROUGH SHAFT. SUPPLIED WITH FRONTAL STOP COLLAR TO BE FIXED ON THE MOTOR SHAFT. DESIGNED FOR USE ON MOTORS.	Family: I page: 05. 50ZA 1/2
		data sheet . II 220 E00

Sized draw standard version: CV R Measures without tolerance according to UNI ISO 2768-mk
 Max joint compensation: axial ± 0,15mm, radial ± 0,05mm, angular ± 1°



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- Base.....: ALUMINIUM	(*)	- MTTFd (°°).....: HIGH	
- Cover.....: ALUMINIUM	(*)	- Impact resistance.....: 50 G x 11ms	
- Weight.....: 300 g		- Vibration resistance.: 12 G (10 ÷ 2000 Hz)	
- Shaft.....: Ø 5÷15 PASS.THR.STAINL.ST.	(*)	- Power supply.....: 5÷30V	(see page 2)
- Max.rad/axial load.: 6 kg		- Operating temperature: -30÷85 °C	(*)
- IP output side.(°): see 'CONNECTION' of page 2		- Storage temperature...: -30 ÷ 85 °C	
- IP shaft side.(°)> std. 64 sealed 65 low torq. 53		- N° of pulses/rev.....: 1 ÷ 25000	
- opt. type (page 2)> standard Z B		- Max frequency.....: 100 kHz (300 option)	
- Contin. max RPM(**)> 8000 3000 12000		- Max consumptions mA...: std 120 line driver 180	(*)
- Starting torque gcm> 40 80 24			

(°) IP according to CEI EN 60529, EN 60529, IEC 529
 (**) custom options

(°°) MTTFd according to EN ISO 13849-1
 (**) intermittent max RPM + 30% of continuous max RPM

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	30						10
Q	NPN OPEN COLL	10		(only 5V, 1030/5V)							
R	NPN	70	Z	DRIVER ET7272	30						
P	NPN OPEN COLL	70									
U	PNP	70									
B	PNP OPEN COLL	70									
H	PUSH-PULL PRO	70									
	PUSH-PULL	70									

(S)

(S)

(S)

Tolerance between phases ± 25°, symmetry ± 15°
 (S) Clock-wise output rotation (see shaft).

Possible Options				Possible Connections								
Code	Description	Code	Description	Cable				Output:				
L	Low temperature	J	Zero logic combination	CV				RAD				
Z	Sealed ball bearing			CONNECTOR				Output:				
B	Low torque ball bear.											
S	160 KHz frequency	K	Invert. phase A,B,Zero.	Cable End Connector				Output:				
W	300 KHz frequency			VM	TM	VL	TL	VD	VH	VH5	VI	RAD
X	Custom options			VE	VK	TK	VN	VH6	VM5	VM9	VS	
		VD5	Terminal Box				Output:					

ORDERING INFORMATION

[illegible]

- (1) For further information see PULSES/REVOL. data sheet
- (2) For further information see ELECTRONIC data sheet
- (3) For further information see CONNECTION data sheet

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WARRANTY starting from delivery date.

ELCIS company has the right to make any changing without previous notice.

data sheet II220 E00 page: 05. 50ZA 1/2



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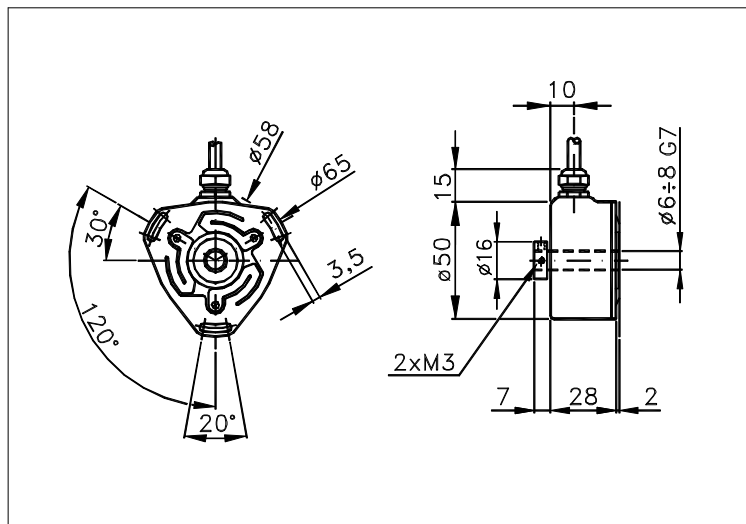
INCREMENTAL ENCODER

50ZB

ENCODER WITH SPRING COUPLING INSIDE AND PASS.THROUGH SHAFT.
SUPPLIED WITH REAR STOP COLLAR TO BE FIXED ON THE MOTOR SHAFT.
DESIGNED FOR USE ON MOTORS.

Family: **I**
page: 05. 50ZB 1/2
data sheet . II 221 E00

Sized draw standard version: CV R Measures without tolerance according to UNI ISO 2768-mk
Max joint compensation: axial $\pm 0,2\text{mm}$, radial $\pm 0,05\text{mm}$, angular $\pm 1^\circ$



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | |
|--|---|
| - Base.....: ALUMINIUM (*) | - MTTFd (°°).....: HIGH |
| - Cover.....: ALUMINIUM (*) | - Impact resistance.....: 50 G x 11ms |
| - Weight.....: 300 g | - Vibration resistance.: 12 G (10 ÷ 2000 Hz) |
| - Shaft.....: Ø 6÷15 PASS THR.STAINL.ST. (*) | - Power supply.....: 5÷30V (see page 2) |
| - Max.rad/axial load.: 6 kg | - Operating temperature: -30÷85 °C (*) |
| - IP output side.(°): see 'CONNECTION' of page 2 | - Storage temperature...: -30 ÷ 85 °C |
| - IP shaft side.(°):> std. 64 sealed 65 low torq. 53 | - N° of pulses/rev.....: 1 ÷ 25000 |
| - opt. type (page 2):> standard Z B | - Max frequency.....: 100 kHz (300 option) |
| - Contin. max RPM(**):> 8000 3000 12000 | - Max consumptions mA.: std 120 line driver 180 (*) |
| - Starting torque gcm> 40 80 24 | |

(°) IP according to CEI EN 60529, EN 60529, IEC 529

(*) custom options

(°°) MTTFd according to EN ISO 13849-1

(**) intermittent max RPM + 30% of continuous max RPM

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	30						10
Q	NPN OPEN COLL	10		(only 5V, 1030/5V)							
R	NPN	70	Z	DRIVER ET7272	20						
P	NPN OPEN COLL	70									
U	PNP	70									
B	PNP OPEN COLL	70									
H	PUSH-PULL PRO	70									
	PUSH-PULL	70									

Tolerance between phases $\pm 25^\circ$, symmetry $\pm 15^\circ$

(§) Clock-wise output rotation (see shaft).



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Possible Options				Possible Connections							
Code	Description	Code	Description	Cable				Output:			
L	Low temperature	J	Zero logic combination	CV				RAD			
Z	Sealed ball bearing			CONNECTOR				Output:			
B	Low torque ball bear.										
S	160 KHz frequency	K	Invert. phase A,B,Zero.								
W	300 KHz frequency			Cable End Connector				Output:			
				VM VE VD5	TM VK	VL TK	TL VN	VD VH6	VH VM5	VH5 VM9	VI VS
X	Custom options			Terminal Box				Output:			

ORDERING INFORMATION

[illegible]

- (1) For further information see PULSES/REVOL. data sheet
- (2) For further information see ELECTRONIC data sheet
- (3) For further information see CONNECTION data sheet

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data sheet II221 E00 page: 05. 50ZB 1/2



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I problemi di posizionamento si risolvono con... ELCIS ENCODER

La ELCIS ENCODER, nata dalla fusione della ELCIS e della SICOD, è specialista nel settore dei trasduttori di posizione sia rotativi che lineari. Il know-how tecnologico acquisito sin dal 1974 del campo degli encoder permette di presentare una gamma estremamente vasta e completa di questi prodotti con degli elevati standard qualitativi in affidabilità, precisione e facilità di utilizzo. I trasduttori Elcis encoder sono forniti o in esecuzione assoluta monogiro o multigiro

o incrementale ad onda quadra o sinusoidale o antideflagranti certificati

ATEX  II2G Ex d IIC T6, T5 Gb,

ATEX  II2D Ex tb IIIC T85°C,

T100°C Db IP66. Le trasduzioni

lineari con risoluzioni fino a 1µm sono

tarate in sala metrica, a temperatura

costante con interferometro laser HP e

corredate di grafico riportante la

precisione. Gli encoder a filo (da

1÷60m) hanno uscite incrementali,

potenziometriche, di tensione,

corrente, assolute e assolute con Bus

di campo. La ricerca continua ha

permesso alla Elcis encoder di

realizzare encoder incrementali con

1 MHz di frequenza e con 1.800.000

divisioni/giro ed encoder assoluti

con tutti i bus di campo

attualmente più utilizzati e ampliare

la gamma con i Potenzimetri Lineari.

La vasta gamma di encoder magnetici è stata implementata da modelli con domanda

di brevetto depositata e certificati ATEX, adatti a reparti petrolchimici, verniciatura,

estrazione gas ecc..

La politica della Elcis encoder nei confronti dei Clienti non è soltanto di fornire un

prodotto affidabile di serie, ma è anche di studiare gratuitamente i problemi specifici

offrendo trasduttori personalizzati.

Gli encoder Elcis perciò, grazie alla loro vastissima gamma di modelli ed

all'affermata qualità e robustezza, sono validamente applicati in tutto il mondo.

Numerosi centri di vendita e assistenza in Europa, USA, America Latina, Asia,

Africa, Australia garantiscono una valida distribuzione del prodotto.

ATEX  II2G Ex d IIC T6, T5 Gb, ATEX

 II2D Ex tb IIIC T85°C, T100°C Db

IP66. Les transductions linéaires ayant

des résolutions jusqu'à 1µm sont

étalonnées en salle métrique, à

température constante à l'aide d'un

interféromètre laser HP et pourvues

d'un graphique reportant la précision.

Les codeurs à fil (de 1 ÷ 60 m), ont des

sorties incrémentales,

potentiométriques, de voltage, courant,

absolues et absolues avec Bus

de terrain. La recherche permanente a

permis à Elcis encoder de réaliser des

codeurs incrémentaux avec 1 MHz de

fréquence et avec 1.800.000

divisions/tour et des codeurs absolus

pourvus des bus de terrain parmi les

plus utilisés actuellement et élargir la

gamme avec les potentiomètres

linéaires. La vaste gamme de codeurs

magnétiques a été implémentée par des

modèles avec demande de brevet déposée et certifiés ATEX, adaptés à des ateliers

pétrochimiques, peintures, extraction gaz, etc. La politique d'Elcis encoder à l'égard

de ses Clients ne consiste pas seulement à fournir un produit fiable en série mais

aussi d'étudier gratuitement les problèmes spécifiques en offrant des transducteurs

personnalisés. Les codeurs Elcis, par conséquent, grâce à la très vaste gamme de

modèles et à la qualité et de la robustesse attestées, sont employés avec succès dans

le monde entier.

De nombreux centres de vente en Europe, aux Etats Unis, en Amérique latine, Asie,

Afrique, Australie garantissent une vaste distribution du produit.

Positioning problems are solved with... ELCIS ENCODER

ELCIS ENCODER, formed by the merger of ELCIS and SICOD, specialized in the field of position transducers, both rotary and linear. The technological know-how acquired since 1974 in the industry of encoders, today allows the company to offer an extremely wide and complete range of such products, with remarkable quality standards in terms of reliability, accuracy and ease of use. Elcis Encoder transducers are made available in absolute multi-turn or single-turn versions, as

well in incremental square-wave,

sine-wave or explosion-proof

version, certified ATEX

 II2G Ex d IIC T6, T5 Gb,

ATEX  II2D Ex tb IIIC T85°C,

T100°C Db IP66. Linear

transducers with up to 1µm

resolution are calibrated in a

suitable metrological lab, at constant

temperature with an HP laser

interferometer and are accompanied

by the graph stating their accuracy.

The cable transducers (from 1 ÷ 60

m), offer a variety of output options:

incremental, potentiometric, voltage,

current, absolute and absolute with

fieldbus. The continuous research

allows to date Elcis Encoder

manufacturing incremental encoders

having 1 MHz frequency and

1.800.000 cycles/rev., as well as

absolute encoders having the most used Field Busses, even increasing the range

with Linear Potentiometers. The wide range of magnetic encoders has been

implemented by models with patent pending and ATEX certified, suitable for

petrochemical, paint, gas extraction fields and the like. Elcis Encoder's policy

towards Customers is not only aimed at providing reliable standard products, but

also at designing, at no extra cost, customized transducers meeting specific and

different Customers' needs. Then Elcis encoders, thanks to the extremely wide range

of models, of proven quality and durability, are thus successfully used world-wide.

Numerous sale and service centres in Europe, USA, South America, Asia, Africa

and Australia guarantee a valid and effective product distribution.

also Multi-turn-Ausführung oder

auch inkremental mit quadratischer

oder Sinuswelle geliefert oder auch in

der explosions sicheren Ausführung

mit Zertifikat ATEX  II2G Ex d IIC

T6, T5 Gb, ATEX  II2D Ex tb IIIC

T85°C, T100°C Db IP66. Die

Längenmessungen mit Auflösungen

bis zu 1µm werden

mit Laser-Inferometer HP im

klimatisiertem Messraum bei

konstanter Temperatur geprüft und

geeichten Messgebern ausgeführt, die

mit einer Grafik der Präzision

geliefert werden. Die Drahtmessgeber

(von 1 ÷ 60 m) haben inkrementale,

potentiometrische, Spannungs-,

Strom-, absolute Ausgänge und

absolute Ausgänge mit Fielbussen.

Dank der ständigen Forschung ist es

Elcis encoder gelungen, inkrementale

Drehgeber mit Ausgangsfrequenz von

1 MHz und mit 1.800.000 Str./Umd. und absolute Drehgeber mit allen derzeit am

meisten benutzten Fieldbussen zu realisieren und das Sortiment mit linearen

Potentiometern zu erweitern. Das breit gefächerte Angebot der magnetischen

Drehgeber ist durch Modelle implementiert worden, für die ein Patent angemeldet

wurde und die ATEX zertifiziert sind und sich für petrochemische Branchen,

Lackierungen, Gasförderung etc. eignen. Elcis Drehgeber werden daher dank der

ausgesprochen breiten Modellpalette und der konsolidierten Qualität und Robustheit

weltweit erfolgreich eingesetzt. Einige Verkaufs- und Kundendienstzentren in der

ganzen Welt garantieren eine effektive Vertreibung des Produkts.



Les problèmes de mise en place trouvent une solution avec... ELCIS ENCODER

L'ELCIS ENCODER, née de la fusion de l'ELCIS et de la SICOD, est spécialisée dans le secteur des transducteurs de position aussi bien rotatifs que linéaires. Le savoir faire technologique acquis depuis 1974 dans le secteur des codeurs permet de présenter une gamme extrêmement vaste et complète de ces produits ayant des standards de qualité élevée en fiabilité, précision et facilité d'utilisation. Les transducteurs Elcis encoder sont livrables soit en exécution mono-tour et multi-tour soit incrémentaux à onde carré e ou sinusoidale soit antidéflagrants certifiés ATEX

 II2G Ex d IIC T6, T5 Gb, ATEX

 II2D Ex tb IIIC T85°C, T100°C Db

IP66. Les transductions linéaires ayant

des résolutions jusqu'à 1µm sont

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pétrochimiques, peintures, extraction gaz, etc. La politique d'Elcis encoder à l'égard

de ses Clients ne consiste pas seulement à fournir un produit fiable en série mais

aussi d'étudier gratuitement les problèmes spécifiques en offrant des transducteurs

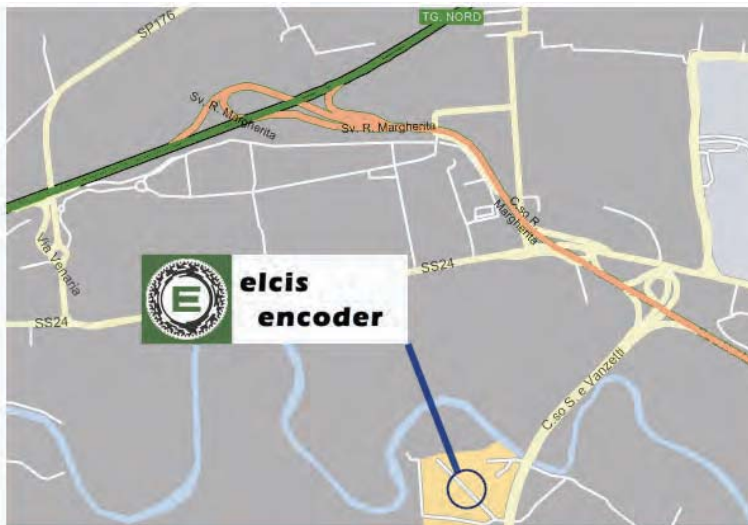
personnalisés. Les codeurs Elcis, par conséquent, grâce à la très vaste gamme de

modèles et à la qualité et de la robustesse attestées, sont employés avec succès dans

le monde entier.

De nombreux centres de vente en Europe, aux Etats Unis, en Amérique latine, Asie,

Afrique, Australie garantissent une vaste distribution du produit.





RAPPRESENTANTE / AGENT / REPRESENTANT / VETRETER

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