

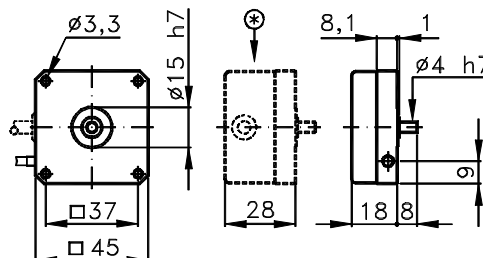
**INCREMENTAL
ENCODER**

I/45

MINIATURE ENCODER, AMONG THE SLIMMEST IN THE WORLD, SQUARE FLANGE,
ALL METAL CONTAINER. HIGH RESOLUTION (UP TO 10000 P.P.R. WITHOUT
ELECTRONIC MULTIPLICATION) AND RELIABILITY.

Family: **I**
page: 01.45 1/2
data sheet . II 007 E0B

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



* FOR ELECTR. THAT ARE NOT '-', 'K', 'N' OR FOR PULS.>2540.

TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- Base.....: ANODIZED ALUMINIUM (*)	- MTTFd (°°).....: HIGH
- Cover.....: ANODIZED ALUMINIUM (*)	- Impact resistance.....: 50 G x 11ms
- Weight.....: 120 g	- Vibration resistance.: 12 G (10 ÷ 2000 Hz)
- Shaft.....: Ø 4 STAINLESS STEEL (*)	- Power supply.....: 5÷30V (see page 2)
- Max.rad/axial load.: 0,7 kg	- Operating temperature: 0 ÷ 70 °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 ÷ 10000
opt. type (page 2)> standard Z B	- Max frequency.....: 60 kHz (160 option)
- Contin. max RPM(**)> 6000 3000 12000	- Max consumptions mA.: std 120 line driver 180 (*)
- Starting torque gcm> 12 25 8	- Light source.....: LED with >= 100000 h life
(°) 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

ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
K	STANDARD NPN	10	N	DRIVER 26LS31	30				Y	SINUSOID.1Vpp	10
Q	NPN OPEN COLL	10	T	TTL 7404	10					(max. 1024 ppr)	
R	NPN OPEN COLL	70	C	DRIVER 88C30	20						
P	PNP	70									
U	PNP OPEN COLL	70									
B	PUSH-PULL PRO	70									
H	PUSH-PULL	70									

(§)

(§)

(§)

Tolerance between phases ± 25°, symmetry ± 15°

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



ELCIS encoder s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
Phone: +39 011 715577/78 a.r.
MAIL: ELCIS encoder s.r.l. P.O.Box 70 10093 COLLEGNO (TO) ITALY

* <http://www.elcis.com>
* e-mail: info@elcis.com
* Fax: +39 011 712613

N.I.F.: B-87969416



GUEMISA

C/ Del Electrodo, 68 Oficina-23
28522 Rivas Vaciamadrid (Madrid)
Tfno.: 91 764 21 00 - info@guemisa.com

POSSIBLE OPTIONS				POSSIBLE CONNECTIONS			
CODE	DESCRIPTION	CODE	DESCRIPTION	CABLE		OUTPUT:	
L	Low temperature	K	Invert. phase A,B,Zero.	CV		RAD	
Y	Unbreakable disk	J	Zero logic combination	CONNECTOR		OUTPUT:	
Z	Sealed ball bearing	M	Impregnated electronic				
B	Low torque ball bear.						
H	Different shaft Ø						
R	75 KHz frequency	G	Tropicalization	CABLE END CONNECTOR		OUTPUT:	
V	100 KHz frequency			VM TM VL TL VD VH VH5 VI		RAD	
S	160 KHz frequency			VE VK TK VN VH6 VM5 VM9 VS			
X	Custom options			VD5			
				TERMINAL BOX		OUTPUT:	

ORDERING INFORMATION

POSSIBLE SHAFT Ø	STANDARD NPN	CABLE	CONNECTOR	CABLE END CONNECTOR
()	(K) NPN OPEN COLL	IP65		IP65 encoder output
()	(Q) NPN	(CV) 1 m long	()	(VM) 7c normal
()	(R) NPN OPEN COLL	()	()	(TM) 7c sealed
()	(P) PNP	()	()	(VL) 10c normal
(n) Ø n upon requ.	(U) PNP OPEN COLL		()	(TL) 10c sealed
()	(B) PUSH-PULL PRO	TERMINAL BOX	()	(VD) 9c
()	(H) PUSH-PULL	IP00	()	(VH) 12c anticlock.
()	(N) DRIVER 26LS31	()	()	(VH5) 12c clock-wise
()	(T) TTL 7404		()	(VI) 12c crimped
()	(C) DRIVER 88C30		()	(VE) 5c
()	()		()	(VK) 17c normal
()	(Y) SINUSOID.1Vpp		()	(TK) 17c sealed
()	(X) CUSTOM OPTION		()	(VN) 12c
()	() (max. 1024 pp)		()	(VH6) 12c clock-wise
()			()	(VM5) 26c
()			()	(VM9) 16c
()			()	(VS) 12c
()			()	(VD5) 9c screened

OPTIONS MODEL	PULSES/REVOL. (1)	POWER SUPPLY (2)	VERSION (2)	ELECTRONIC (2)	CONNECTION (3)	OUTPUT
I/ 45	500	5	BZ	N	CV	R
(L) (Y) (Z) (B) (H) (R) (V) (S) () () (X)	1 ÷ 10000	(Vcc) (5) 5 V ±5% (824) 8÷24 V (1828) 18÷28 V (815) 8÷15 V (12) 12 V ±5% (24) 24 V ±5% (1230) 12÷30/12 V (8245) 8÷24/5 V (1030) 10÷30 V (18285) 18÷28/5 V (1530) 15÷30/15 V ()	(M) Monodirectional (B) Bidirectional (BZ) Bidirectional + zero (MZ) Monodirectional + zero			() RAD (R)

NOTE: FOR 88C30 MAX 15 Vdc

- (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.

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

data sheet II007 E0B page: 01. 45

1/2



ELCIS encoder s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
 Phone: +39 011 715577/78 a.r.
 MAIL: ELCIS encoder s.r.l. P.O.Box 70 10093 COLLEGNO (TO) ITALY

* <http://www.elcis.com>
 * e-mail: info@elcis.com
 * Fax: +39 011 712613