

**INCREMENTAL
ENCODER**

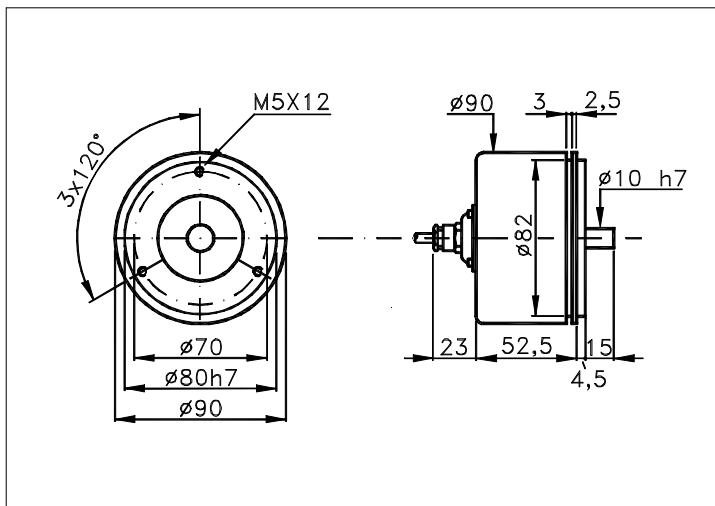
90D

HIGH RESOLUTION AND COMPACT-SIZE ENCODER FIT TO BE USED ON
DIVIDING TABLES, ETC. GOOD SEAL TO EXTERNAL ENVIRONMENTAL AGENTS.

Family: **I**
page: 04. 90D 1/2
data sheet . II 022 E00

Sized draw standard version: CV

Measures without tolerance according to UNI ISO 2768-mk



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | |
|--|---|
| <ul style="list-style-type: none"> - Base.....: ANODIZED ALUMINIUM (*) - Cover.....: ANODIZED ALUMINIUM (*) - Weight.....: 600 g - Shaft.....: Ø 10 STAINLESS STEEL (*) - Max.rad/axial load.: 3 kg - IP output side.(°)..: see 'CONNECTION' of page 2 - IP shaft side.(°).> std. 65 sealed 66 low torq. 53 - opt. type (page 2).> standard Z B - Contin. max RPM(**)> 6000 3000 12000 - Starting torque gcm> 25 40 18 | <ul style="list-style-type: none"> - Ball bearings life....: 1,5 x 10⁹ revolutions - Impact resistance....: 50 G x 11ms - Vibration resistance..: 12 G (10 ÷ 2000 Hz) - Power supply.....: 5÷30V (see page 2) - Operating temperature: 0 ÷ 70 °C (*) - Storage temperature...: -30 ÷ 85 °C - N° of pulses/rev.....: 1 ÷ 90000 - Max frequency.....: 100 kHz (1000 option) - Max consumptions mA..: std 120 line driver 180 (*) - Light source.....: LED with >= 100000 h life |
|--|---|

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

(*) custom options

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

ELECTRONICS

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

(S)

(S)

(S)

Tolerance between phases ± 25°, symmetry ± 15°

(S) 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			
L	Low temperature	C	Low consumption	CV			
Z	Sealed ball bearing	K	Invert. phase A,B,Zero.				
B	Low torque ball bear.	J	Zero logic combination				
H	Different shaft Ø	M	Impregnated electronic				
		A	High temperature				
		P	Compressed air attack				
		Q	Oil seal				
		G	Tropicalization				
S	160 KHz frequency						
W	300 KHz frequency						
T	500 KHz frequency						
U	1 MHz frequency						
X	Custom options						

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	(CM) 7c norm. IP65	(VM) 7c normal
()	(R) NPN OPEN COLL	()	(SM) 7c sealed IP66	(TM) 7c sealed
()	(P) PNP	()	(CL) 10c norm. IP65	(VL) 10c normal
()	(U) PNP OPEN COLL	()	(SL) 10c sealed IP66	(TL) 10c sealed
(n) Ø n upon requ.	(B) PUSH-PULL PRO		(CD) 9c sub D IP63	(VD) 9c
()	(H) PUSH-PULL	TERMINAL BOX	(CH) 12c ccw IP67	(VH) 12c anticlock.
()	(N) DRIVER 26LS31	IP00	(CH5) 12c cw IP67	(VH5) 12c clock-wise
()	(T) TTL 7404	()	(CI) 12c crimp. IP64	(VI) 12c crimped
()	(C) DRIVER 88C30		(CE) 5c miniat IP64	(VE) 5c
()	()		()	(VK) 17c normal
()	()		()	(TK) 17c sealed
()	(Y) SINUSOID.1Vpp		(C4) 4c screw IP65	(VN) 12c
()	(X) CUSTOM OPTION		(CH6) 12c cw IP67	(VH6) 12c clock-wise
()	()		()	(VM5) 26c
()	()			(VM9) 16c
()	()			(VS) 12c
()	()			(VD5) 9c screened

OPTIONS	MODEL	PULSES/REVOL. (1)	POWER SUPPLY	VERSION (2)	ELECTRONIC (2)	CONNECTION (3)	OUTPUT
I/	90D	500	5	BZ	N	CV	
(L)	(C)	1 ÷ 90000	(Vcc)	(M)			AX ()
()	(K)		(5) 5 V ±5%	(B)	Monodirectional		RAD (R)
(Z)	(J)		(824) 8÷24 V	(BZ)	Bidirectional		
(B)	(M)		(1828) 18÷28 V	(MZ)	Bidirectional + zero		
(H)	(A)		(815) 8÷15 V		Monodirectional + zero		
()	(P)		(12) 12 V ±5%				
()	(Q)		(24) 24 V ±5%				
()	(G)		(1230) 12÷30/12 V				
(S)	()		(8245) 8÷24/5 V				
(W)	()		(1030) 10÷30 V				
(T)	()		(18285) 18÷28/5 V				
(U)	()		(1530) 15÷30/15 V				
(X)	()		()				

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 9001:2000,
 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 II022 E00 page: 04. 90D 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