

**INCREMENTAL
ENCODER**

90C

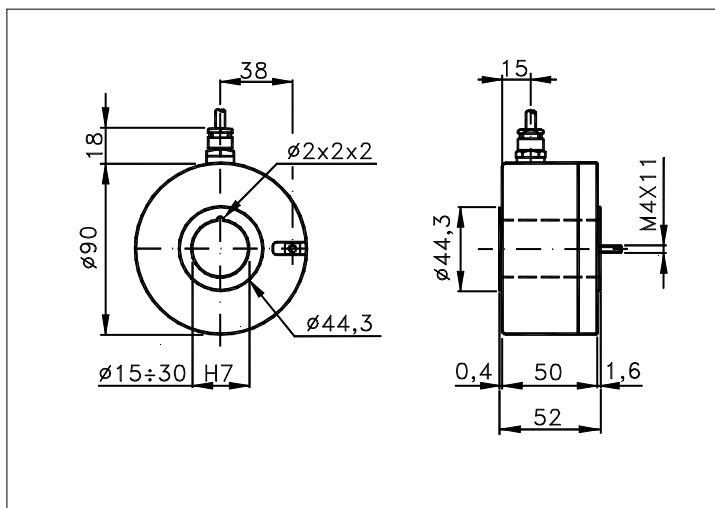
ENCODER HIGH RESOLUTION, THROUGH SHAFT Ø 15÷30 mm AND EQUIPPED
WITH INSIDE TANGENTIAL COUPLING. METALLIC CASE FOR MEDIUM-SEVERE
INDUSTRIAL USES. LOW PRICE.

Incremental
page: 04. 90C

1/2

data sheet . II 074 E00

Sized draw standard version: CV R Measures without tolerance according to UNI ISO 2768-mk
Max joint compensation: axial ± 0,2mm, radial ± 0,05mm, angular ± 2°



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- Base.....: ANODIZED ALUMINIUM (*)	- Ball bearings life....: 1,5 x 10 ⁹ revolutions
- Cover.....: ANODIZED ALUMINIUM (*)	- Impact resistance....: 50 G x 11ms
- Weight.....: 650 g	- Vibration resistance..: 12 G (10 ÷ 2000 Hz)
- Shaft.....: Ø 15÷30 PASS.THR.STAIN.ST. (*)	- Power supply.....: 5÷30V (see page 2)
- Max.rad/axial load.: 10 kg	- Operating temperature: 0 ÷ 70 °C (*)
- IP output side.(°): see 'CONNECTION' of page 2	- Storage temperature..: -30 ÷ 85 °C
- IP shaft side.(°):> std. 65 sealed - low torq. -	- N° of pulses/rev.....: 1 ÷ 36000
- opt. type (page 2):> standard	- Max frequency.....: 100 kHz (300 option)
- Contin. max RPM(**):> 1000 - -	- Max consumptions mA.: std 120 line driver 180 (*)
- Starting torque gcm> 200 - -	- 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
K	STANDARD NPN	10	N	DRIVER 26LS31	30						
Q	NPN OPEN COLL	10	T	TTL 7404	10						
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°

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



ELCIS s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
Phone: +39 011 715577/78 a.r.
MAIL: ELCIS s.r.l. P.O.Box 90 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
L	Low temperature	K	Invert. phase A,B,Zero.
		J	Zero logic combination
		M	Impregnated electronic
		A	High temperature
		P	Compressed air attack
S	160 KHz frequency	G	Tropicalization
W	300 KHz frequency		
X	Custom options		

ORDERING INFORMATION

POSSIBLE HOLLOW Ø		STANDARD NPN	CABLE	CONNECTOR	CABLE END CONNECTOR
(15) Ø 15	(K) NPN OPEN COLL	IP65			IP65 encoder output
(20) Ø 20	(Q) NPN	(CV) 1 m long			(VM) 7c normal
(25) Ø 25	(R) NPN OPEN COLL	()			(TM) 7c sealed
(30) Ø 30	(P) PNP	()			(VL) 10c normal
(n) Ø n upon requ.	(U) PNP OPEN COLL	()			(TL) 10c sealed
	(B) PUSH-PULL PRO				(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				(VI) 12c crimped
	(C) DRIVER 88C30				(VE) 5c
					(VK) 17c normal
					(TK) 17c sealed
					(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
90C	500	5	BZ	N	CV	R	
(L)	()	1 ÷ 36000	(Vcc)	(M) Monodirectional			()
()	(K)		(5) 5 V ±5%	(B) Bidirectional			(R)
()	(J)		(824) 8÷24 V	(BZ) Bidirectional + zero			
()	(M)		(1828) 18÷28 V	(MZ) Monodirectional + zero			
()	(A)		(815) 8÷15 V				
()	(P)		(12) 12 V ±5%				
()	()		(24) 24 V ±5%				
(S)	(G)		(1230) 12÷30/12 V				
(W)	()		(8245) 8÷24/5 V				
()	()		(1030) 10÷30 V				
()	()		(18285) 18÷28/5 V				
(X)	()		(1530) 15÷30/15 V				

NOTE: FOR 88C30 MAX 15 Vdc

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

- (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

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

data sheet II074 E00 page: 04. 90C 1/2



ELCIS s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
 Phone: +39 011 715577/78 a.r.
 MAIL: ELCIS s.r.l. P.O.Box 90 10093 COLLEGNO (TO) ITALY

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