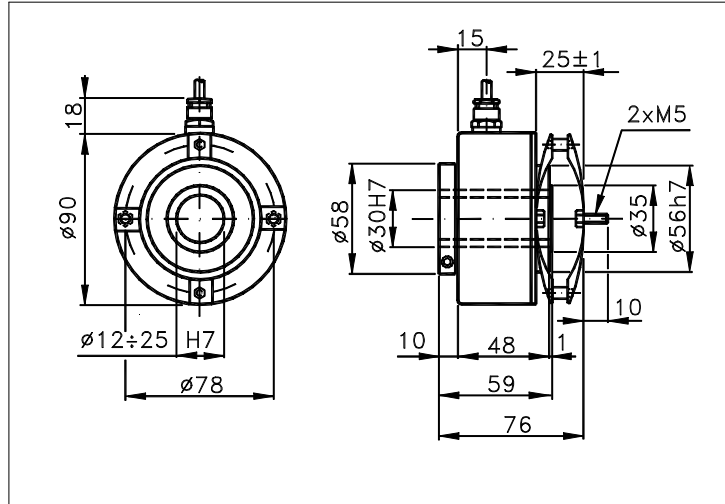


90CBB

Sized draw standard version: CV R Measures without tolerance according to UNI ISO 2768-mk  
Max joint compensation: axial  $\pm 2$ mm, radial  $\pm 0,2$ mm, angular  $\pm 3^\circ$



TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- |   |  |
|---|--|
| - Base.....: ANODIZED ALUMINIUM (*)                     | - Ball bearings life...: $1,5 \times 10^9$ revolutions |
| - Cover.....: ANODIZED ALUMINIUM (*)                    | - Impact resistance....: 50 G x 11ms                   |
| - Weight.....: 700 g                                    | - Vibration resistance..: 12 G (10 ÷ 2000 Hz)          |
| - Shaft.....: STAINL. STEEL HOLLOW SHAFT (*)            | - 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 66   low torq. - | - N° of pulses/rev.....: 1 ÷ 18000                     |
| opt. type (page 2):> standard   Z                       | - Max frequency.....: 100 kHz (300 option)             |
| - Contin. max RPM(**):> 6000   3000   -                 | - Max consumptions mA...: std 120 line driver 180 (*)  |
| - Starting torque gcm> 120   180   -                    | - Light source.....: LED with $\geq 100000$ h life     |

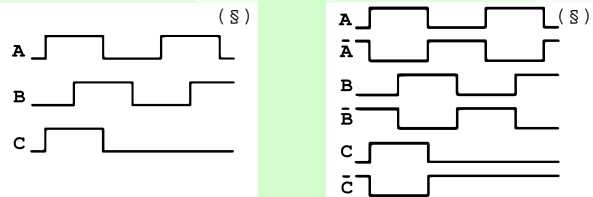
(°) IP according to CEI EN 60529, EN 60529, IEC 529

(\*) 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						
K	NPN OPEN COLL	10	T	TTL 7404	10						
Q	NPN	70	C	DRIVER 88C30	20						
R	NPN OPEN COLL	70	L	2x PUSH-P.PRO	70						
P	PNP	70	M	2x PUSH-PULL	70						
U	PNP OPEN COLL	70									
B	PUSH-PULL PRO	70									
H	PUSH-PULL	70									



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

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



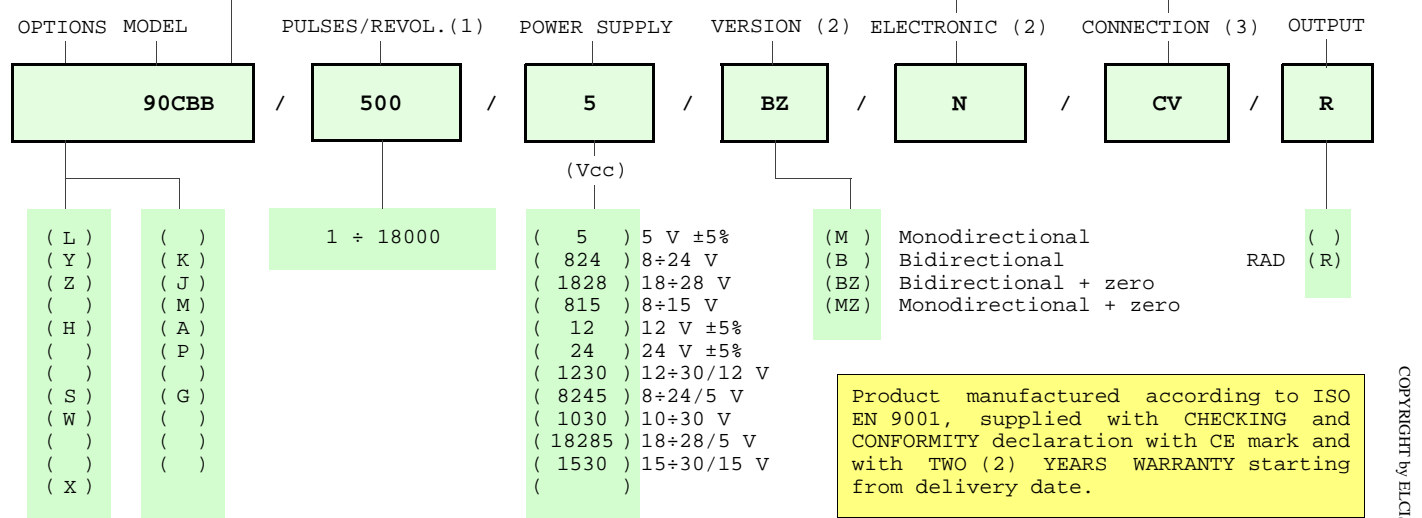
ELCIS s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY  
Phone: +39 011 715577/78 a.r.  
MAIL: ELCIS s.r.l. P.O.Box 90 10093 COLLEGNO (TO) ITALY

\* <http://www.elcis.com>  
\* e-mail: [info@elcis.com](mailto:info@elcis.com)  
\* Fax: +39 011 712613

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	CD	CH	CH5	CI
H	Different shaft Ø	A	High temperature	CE	C4	CH6	RAD
S	160 KHz frequency	P	Compressed air attack	CABLE END CONNECTOR			OUTPUT :
W	300 KHz frequency	G	Tropicalization	VM	TM	VL	TL
X	Custom options			VE	VK	TK	VN
				VD5	VH	VH5	VI
					VM5	VM9	VS
					VD5		
				TERMINAL BOX			OUTPUT :


### ORDERING INFORMATION

POSSIBLE HOLLOW Ø		CABLE	CONNECTOR	CABLE END CONNECTOR
( 12 ) Ø 12	( ) STANDARD NPN	IP65		IP65 encoder output
( 15 ) Ø 15	( K ) NPN OPEN COLL	( CV ) 1 m long	( )	( VM ) 7c normal
( 20 ) Ø 20	( Q ) NPN	( )	( )	( TM ) 7c sealed
( 25 ) Ø 25	( R ) NPN OPEN COLL	( )	( )	( VL ) 10c normal
( )	( P ) PNP	( )	( )	( TL ) 10c sealed
( n ) Ø n upon requ.	( U ) PNP OPEN COLL	TERMINAL BOX	( CD ) 9c sub D	( VD ) 9c
( )	( B ) PUSH-PULL PRO	IP00	( CH ) 12c ccw	( VH ) 12c anticlock.
( )	( H ) PUSH-PULL		( CH5 ) 12c cw	( VH5 ) 12c clock-wise
( )	( N ) DRIVER 26LS31		( CI ) 12c crimp.	( VI ) 12c crimped
( )	( T ) TTL 7404		( CE ) 5c miniat	( VE ) 5c
( )	( C ) DRIVER 88C30		( )	( VK ) 17c normal
( )	( L ) 2x PUSH-P.PRO		( C4 ) 4c screw	( TK ) 17c sealed
( )	( M ) 2x PUSH-PULL		( CH6 ) 12c cw	( VN ) 12c
( )	( )		( )	( VH6 ) 12c clock-wise
( )	( X ) CUSTOM OPTION			( VM5 ) 26c
( )				( VM9 ) 16c
( )				( VS ) 12c
( )				( VD5 ) 9c screened



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

	ELCIS s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY	* <a href="http://www.elcis.com">http://www.elcis.com</a>
	Phone: +39 011 715577/78 a.r.	* e-mail: <a href="mailto:info@elcis.com">info@elcis.com</a>
	MAIL: ELCIS s.r.l. P.O.Box 90 10093 COLLEGNO (TO) ITALY	* Fax: +39 011 712613

COPYRIGHT by ELCIS - Collegno (TO)