

INCREMENTAL
ENCODER

0Q80EXS


EXPLOSION-PROOF ENCODER, CERTIFIED BY ISSeP, ATEX Ex d IIC T6/T5,
ACCORDING TO CENELEC RULES. 'SIZE 25' SQUARE FLANGE. FIT TO BE USED
ON WORKING ENVIRONMENTS WITH EXPLOSIVE ATMOSPHERE (EXCEPT GRISU).


ATEX
(DIRECTIVE 94/9/EC)

CE  II 2 G D

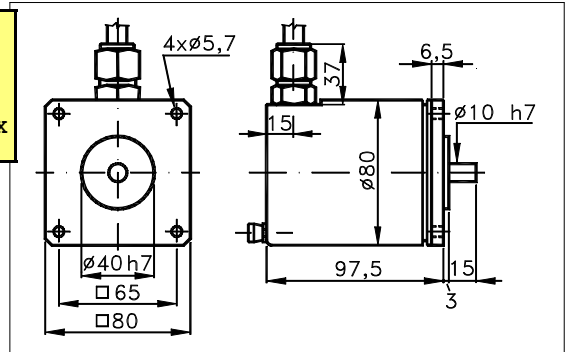
Sized draw standard version: CV1 R Measures without tolerance according to UNI ISO 2768-mk




CE  II 2 G Ex d IIC T6 Gb
D Ex tb IIIC T85°C Db IP6X

CE  II 2 G Ex d IIC T5 Gb
D Ex tb IIIC T100°C Db IP6X

**GAS "G"
and
DUST "D"**



 Encoder built with certification ATEX explosion-proof rules, according to armonized standards EN60079-0/EN60079-1/EN60079-31. Certified by ISSeP ISSeP07ATEX018X and notified by CESI CESI02ATEX138Q. Special conditions for safe use: symbol X.
The apparatus is fitted with a cable suitable with temperature of 100°C minimum permanently connected to it; an appropriate connection of the free end of the cable shall be foreseen. The quality of the assembly screws shall be 8.8 at least.

Ex : Manufactured in accordance with one or more Cenelec security Standards.
d/tb : It means explosion-proof case.
Gb/Db: Protection level.
IIIC : Conductive dust.
II : Built for use in all sites except for mines with grisul'.

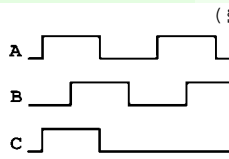
C : Maximum security (MESG) experimental gap type.
IP6X: Degree of protection (IP code).
T5 : Maximum temperature of the case surface: 100°C.
T6 : Maximum temperature of the case surface: 85°C (standard).

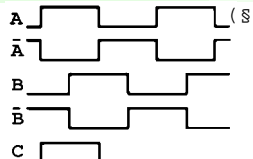
TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

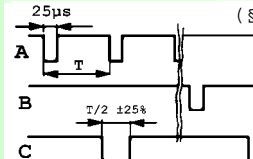
- Base.....: ANODIZED ALUMINIUM (*)
 - Cover.....: ANODIZED ALUMINIUM (*)
 - Weight.....: 1300 g
 - Shaft.....: ϕ 10 STAINLESS STEEL (*)
 - Max.rad/axial load.: 10 kg
 - IP output side.(°): see 'CONNECTIONS' of page 2
 - IP shaft side.(°): std. 65 sealed 66 low torq. -
opt. type (page 2): standard Z
 - Contin. max RPM(**): 6000 3000 -
 - Starting torque gcm: 18 50 -
 - 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)
 - Ambient temperature..: (T5)-20÷60°C, (T6)-20÷40°C
 - Storage temperature..: -30 + 85 °C
 - N° of pulses/rev.....: 1 + 10000
 - Max frequency.....: 100 kHz (300 option)
 - Max consumption 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

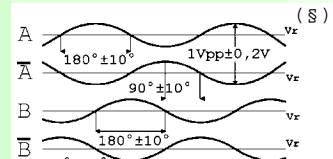
ELECTRONICS

CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA	CODE	DESCRIPTION	mA
	STANDARD NPN	10	N	DRIVER 26LS31	30	D	DISCRIMINAT.	70	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	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									

(§) 

A  (§)

25 μ s  (§)

A  (§)

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

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

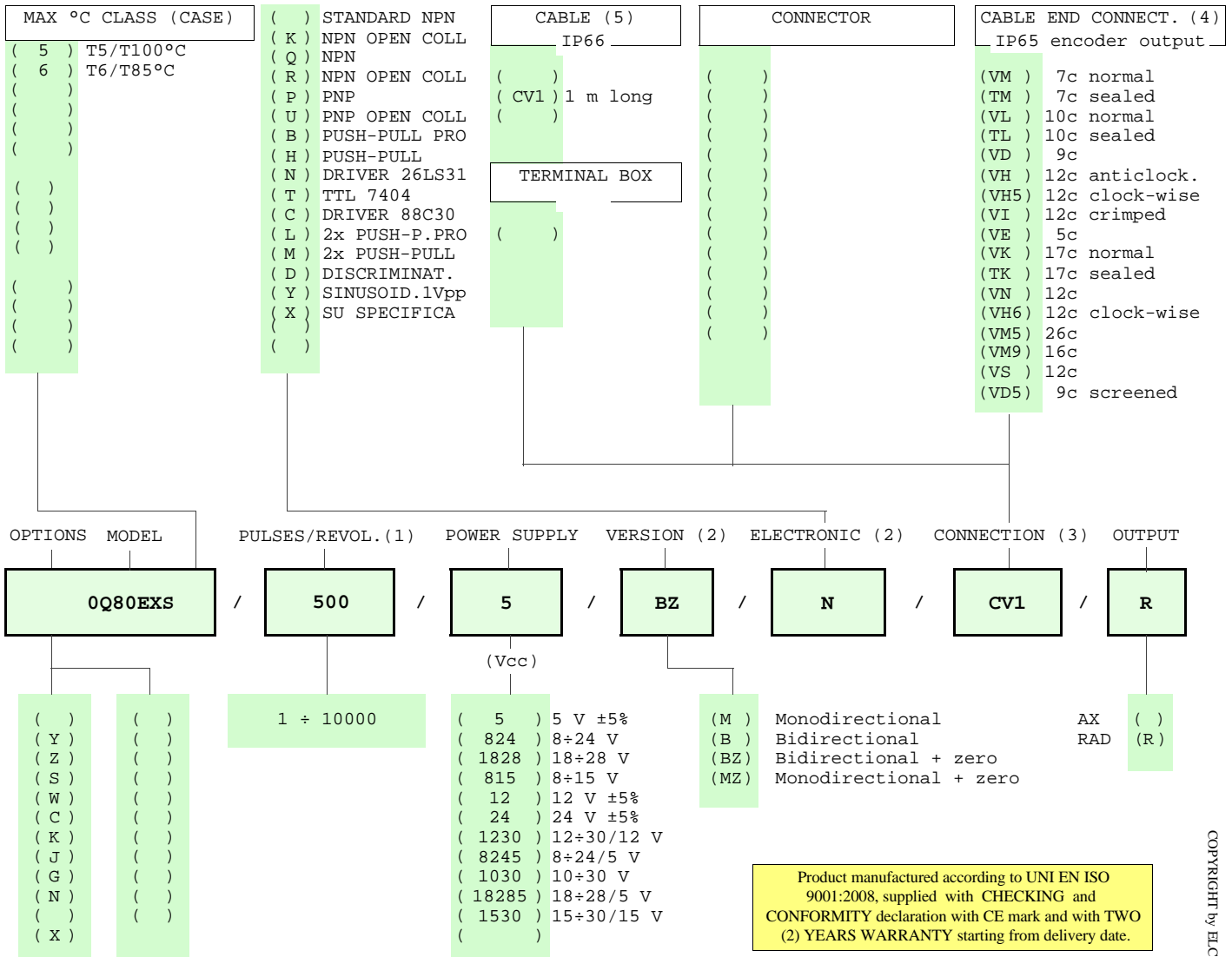


ELCIS encoder s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY
Phone: +39 011 715577/78 r.a. - Fax: +39 011 712613

* <http://www.elcis.com>
* e-mail: info@elcis.com

POSSIBLE OPTIONS				POSSIBLE CONNECTIONS								
CODE	DESCRIPTION	CODE	DESCRIPTION									
Y	Unbreak. disk (only T6)			CABLE (5)				OUTPUT				
Z	Sealed ball bearing			CV1				AX RAD				
S	160 KHz frequency			CONNECTOR				OUTPUT				
W	300 KHz frequency											
C	Low consumption			CABLE END CONNECTOR (4)				OUTPUT				
K	Invert. phase A,B,Zero.			VM	TM	VL	TL	VD	VH	VH5	VI	AX
J	Zero logic combination			VE	VK	TK	VN	VH6	VM5	VM9	VS	RAD
G	Tropicalization			VD5								
N	Stainless steel cover			TERMINAL BOX				OUTPUT				
X	Custom options											

ORDERING CODE



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.

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
- (4) Only outside the area with explosive atmosphere

- (5) The junction has to be made with Ex junction box or outside potentially explosive environments.

	ELCIS encoder s.r.l. Via Rosa Luxembourg 12/14 10093 COLLEGNO (TO) ITALY Phone: +39 011 715577/78 r.a.	* http://www.elcis.com * e-mail: info@elcis.com * Fax: +39 011 712613
--	--	--