

INCREMENTAL ENCODER

0L80EXS

EXPLOSION-PROOF ENCODER, CERTIFIED BY ISSeP, ATEX Ex d II C T6/T5, ACCORDING TO CENELEC RULES. INTERNAL COUPLING. FIT TO BE USED ON WORKING ENVIRONMENTS WITH EXPLOSIVE ATMOSPHERE (EXCEPT FOR GRISU).

ATEX (DIRECTIVE 94/9/EC)

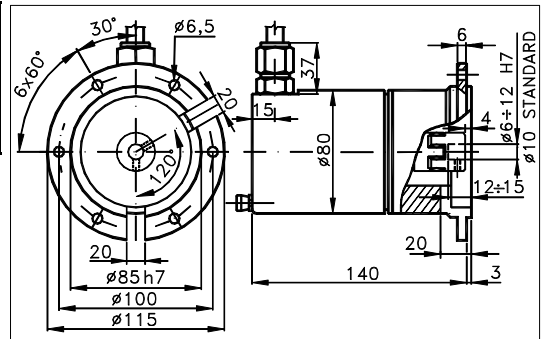
CE Ex II 2 G D

Sized draw standard version: CV1 R Measures without tolerance according to UNI ISO 2768-mk
Max joint compensation: axial ± 0,25mm, radial ± 0,05mm, angular ± 1°



CE Ex II 2 G Ex d IIC T6 Gb
D Ex tb IIIC T85°C Db IP6X
CE Ex II 2 G Ex d IIC T5 Gb
D Ex tb IIIC T100°C Db IP6X

GAS "G"
and
DUST "D"



Ex 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'.

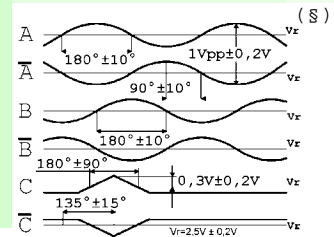
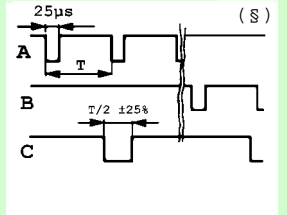
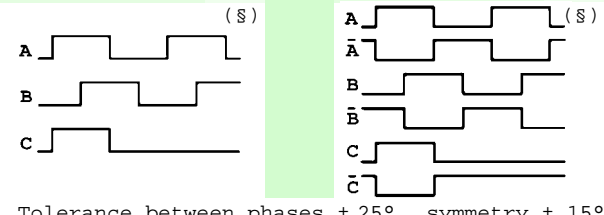
C : Maximum security (MESG) experimental gap type.
IP6X: Degree of protection (IP code).
T5 : Maximum temperature of the case surface: 100°C.
T6 : Maximum temperature of the case surface: 85°C (standard).

TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- | | |
|--|---|
| - Base.....: ALUMINIUM (*) | - Ball bearings life....: 1,5 x 10 ⁹ revolutions |
| - Cover.....: ANODIZED ALUMINIUM (*) | - Impact resistance....: 50 G x 11ms |
| - Weight.....: 1680 g | - Vibration resistance..: 12 G (10 + 2000 Hz) |
| - Shaft.....: Ø 6±12 HOLLOW STAINLESS.ST (*) | - Power supply.....: 5÷30V (see page 2) |
| - Max.rad/axial load.: 10 kg | - Ambient temperature..: (T5)-20÷60°C, (T6)-20÷40°C |
| - IP output side.(°)..: see 'CONNECTIONS' of page 2 | - Storage temperature..: -30 + 85 °C |
| - IP shaft side.(°)..: std. 64 sealed 66 low torq. - | - N° of pulses/rev.....: 1 ÷ 10000 |
| opt. type (page 2): standard Z 6 | - Max frequency.....: 100 kHz (300 option) |
| - Contin. max RPM(**): 6000 3000 - | - Max consumption mA...: std 120 line driver 180 (*) |
| - Starting torque gcm: 18 50 - | - 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									

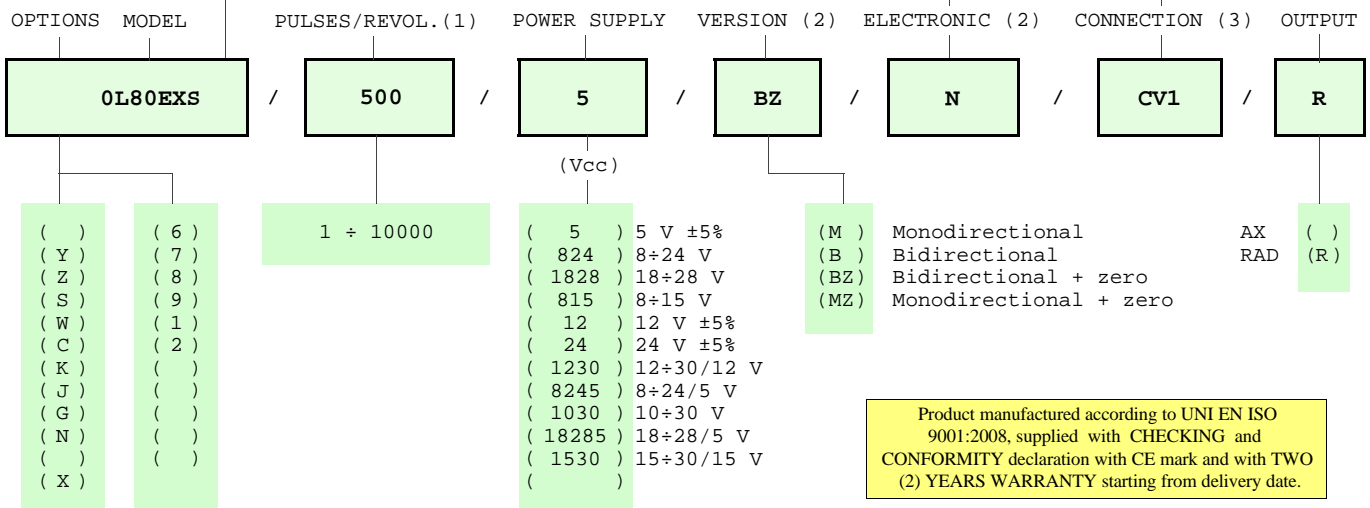


(§) Clock-wise output rotation (see shaftf).

POSSIBLE OPTIONS				POSSIBLE CONNECTIONS								
CODE	DESCRIPTION	CODE	DESCRIPTION									
Y	Unbreak. disk (only T6)	6	Ø 6 Hollow shaft	CABLE (5)				OUTPUT				
Z	Sealed ball bearing	7	Ø 7 Hollow shaft	CV1				AX RAD				
S	160 KHz frequency	8	Ø 8 Hollow shaft	CONNECTOR				OUTPUT				
W	300 KHz frequency	9	Ø 9.52 Hollow shaft									
C	Low consumption	1	Ø 11 Hollow shaft	CABLE END CONNECTOR (4)				OUTPUT				
K	Invert. phase A,B,Zero.	2	Ø 12 Hollow shaft	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

MAX °C CLASS (CASE)	() STANDARD NPN	CABLE (5)	CONNECTOR	CABLE END CONNECT. (4)
(5) T5/T100°C	(K) NPN OPEN COLL	IP66		IP65 encoder output
(6) T6/T85°C	(Q) NPN	()	()	(VM) 7c normal
()	(R) NPN OPEN COLL	(CV1) 1 m long	()	(TM) 7c sealed
()	(P) PNP	()	()	(VL) 10c normal
()	(U) PNP OPEN COLL	()	()	(TL) 10c sealed
()	(B) PUSH-PULL PRO		()	(VD) 9c
()	(H) PUSH-PULL	TERMINAL BOX	()	(VH) 12c anticlock.
()	(N) DRIVER 26LS31		()	(VH5) 12c clock-wise
()	(T) TTL 7404		()	(VI) 12c crimped
()	(C) DRIVER 88C30		()	(VE) 5c
()	(L) 2x PUSH-P.PRO		()	(VK) 17c normal
()	(M) 2x PUSH-PULL		()	(TK) 17c sealed
()	(D) DISCRIMINAT.		()	(VN) 12c
()	(Y) SINUSOID.1Vpp		()	(VH6) 12c clock-wise
()	(X) SU SPECIFICA		()	(VM5) 26c
()			()	(VM9) 16c
()			()	(VS) 12c
()			()	(VD5) 9c screened



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 company has the right to make any changing without previous notice. data sheet . II 153 EC0 page: 11.0L80EXS 2/2

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