

INCREMENTAL ENCODER

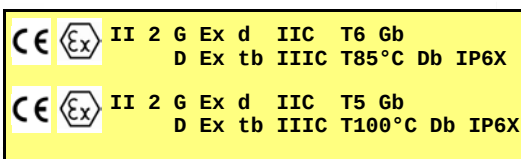
0B80EXS

EXPLOSION-PROOF ENCODER, CERTIFIED BY ISSEP, ATEX Ex d II C T6/T5,
ACCORDING TO CENELEC RULES. B10 FLANGE (Ø 115). FITTED TO BE USED ON
WORKING ENVIRONMENTS WITH EXPLOSIVE ATMOSPHERE (EXCEPT FOR GRISU').

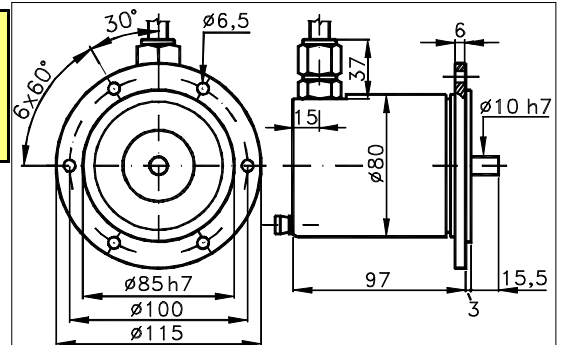
ATEX
(DIRECTIVE
2014/34/EU)

CE  II 2 G D

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



**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 grisù'.

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 (*)	- Ball bearings life...: 1,5 x 10 ⁹ revolutions
- Cover.....: ANODIZED ALUMINIUM (*)	- Impact resistance....: 50 G x 11ms
- Weight.....: 1300 g	- Vibration resistance.: 12 G (10 ÷ 2000 Hz)
- Shaft.....: Ø 10 STAINLESS STEEL (*)	- 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. 65 sealed 66 low torq. - opt. type (page 2): standard Z	- N° of pulses/rev.....: 1 ÷ 10000
- Contin. max RPM(**): 6000 3000 -	- Max frequency.....: 100 kHz (300 option)
- Starting torque gcm: 18 50 -	- 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									

(§)

Tolerance between phases ± 25°, symmetry ± 15°

(§)

(§)

(§)

(§) Clock-wise rotation (see shatf).

POSSIBLE OPTIONS				POSSIBLE CONNECTIONS								
CODE	DESCRIPTION	CODE	DESCRIPTION	CABLE (5)					OUTPUT			
Y	Unbreak. disk (only T6)			CV1 CV6					AX RAD			
Z	Sealed ball bearing			CONNECTOR					OUTPUT			
S	160 KHz frequency											
W	300 KHz frequency											
C	Low consumption											
K	Invert. phase A,B,Zero.			CABLE END CONNECTOR (4)					OUTPUT			
J	Zero logic combination			VM VE VD5	TM VK	VL TK	TL VN	VD VH6	VH VM5	VH5 VM9	VI VS	AX RAD
G	Tropicalization											
N	Stainless steel cover											
X	Custom options											
ORDERING CODE												

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	(CV1)	1 m long	()		(VM)	7c normal
()		(R)	NPN OPEN COLL	(CV6)	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			()		(VH)	12c anticlock.
()		(N)	DRIVER 26LS31	TERMINAL BOX		()		(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

OPTIONS	MODEL	PULSES/REVOL. (1)	POWER SUPPLY	VERSION (2)	ELECTRONIC (2)	CONNECTION (3)	OUTPUT
	0B80EXS	500	5	BZ	N	CV1	R
			(Vcc)				
		1 ÷ 10000					
			(5) 5 V ±5%	(M) Monodirectional			AX ()
			(824) 8÷24 V	(B) Bidirectional			RAD (R)
			(1828) 18÷28 V	(BZ) Bidirectional + zero			
			(815) 8÷15 V	(MZ) Monodirectional + zero			
			(12) 12 V ±5%				
			(24) 24 V ±5%				
			(1230) 12÷30/12 V				
			(8245) 8÷24/5 V				
			(1030) 10÷30 V				
			(18285) 18÷28/5 V				
			(1530) 15÷30/15 V				

NOTE: FOR 88C30 MAX 15Vdc

- (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.

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.

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

data sheet . II 102 EC page: 11.0B80EXS 2/2



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