SINGLE TURN **ABSOLUTE ENCODER** 80EXS

Explosion-proof encoder, certified by ISSeP, ATEX Ex d II C T6, according to CENELEC Standards. 'Servo-mount' installation. Fitted to be used on working environments with explosive atmosphere (except for grisu').

ATEX (DIRECTIVE 2014/34/UE)

**( € ⟨€x⟩** II 2 G D

Absolute single turn encoder from 7 to 12 bits.

Sized draw standard version:

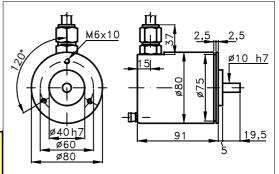
CV2 R

Measures without tolerance according to UNI ISO 2768-mk



GAS "G" and DUST "D"

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



with certification ATEX explosion-proof rules, built. according to armonized standards EN60079-0/EN60079-1/EN60079-31. Certified by ISSEP ISSEP07ATEX018X and notified by CESI Special conditions for safe use: symbol X. CESIO2ATEX1380.

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.

: Manufactured in accordance with one or more Cenelec securiry Standards.

d/tb : It means explosion-proof case.

Db/Gb: Protection level. IIIC : Conductive dust.

: Built for use in all sites except for mines with grisu'.

C : Maximum security (MESG) experimental gap type.

IP6X: Degree of protection (IP code).

Т6 : Maximum temperature of the case surface: 85°C (standard).

## TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- Output codes..... Gray, Excess, Custom
- Max pulses/rev.....: 4096 (12 bits)
- Power supply Vcc....: 5±5%, 15±5%, 8÷24, 18÷28
- Max consumption....:180 mA
- Light source......: LED with >= 100000 h life
- Optical sensors.....: Phototransistors
- Max frequency.....:50 kHz
- Ambient temperature...: (T6) -20 ÷ +40 °C
- Storage temperature...: -30 ÷ +85 °C
- Burn-in @ +75 °C..... 72 h
- Commutazione up/down..: Yes
- Mechanical zero search: No
- Possible versions....: (GP) Gray -Parallel
  - (GS) Gray Serial SSI
  - (EP) Excess Parallel
  - (ES) Excess Serial SSI
  - (A) Analogic 'current' (\*\*) (\*\*)
  - (V) Analogic 'voltage'
- Possible outputs.....: (1) NPN open coll.10mA(std) with GP, EP versions. (2) NPN open coll.10mA + PTC
  - (3) NPN open emitt.10mA+ PTC
    - (4) Push-p. 10mA+PTC

- Connections Radial (R)/ CV1 CV7 (3) VM5 TM5
- Axial ( ) : For the description of connections see 'ORDERING CODE' on page 2.
- (\*)
- Cover ..... Aluminium (\*)
- Weight.....1300 g
- Shaft......Ø 10 Stainless Steel
- Max.rad/axial load....: 10 Kg
- IP output side.....(°): see 'CONNECTIONS' on page 2
- IP shaft side.....(°): std.65 sealed 66 low torq.-
- Contin. max RPM.....: 6000 3000
- Starting torque.. gcm.: 18 50
- Impact resistance....: 50 G (11 ms)
- Vibration resistance..: 12 G (10 ÷ 2000 Hz)
- Ball bearings life....: 1,5x10^9 revolutions
  - (@ 1000 RPM with load of 1/4 maximum allowed)
- (\*) Custom options
- (°) IP according to CEI EN60529, EN60529, IEC 529
- (\*\*) Only power supply 15 V or 18:28 V and resol.4096

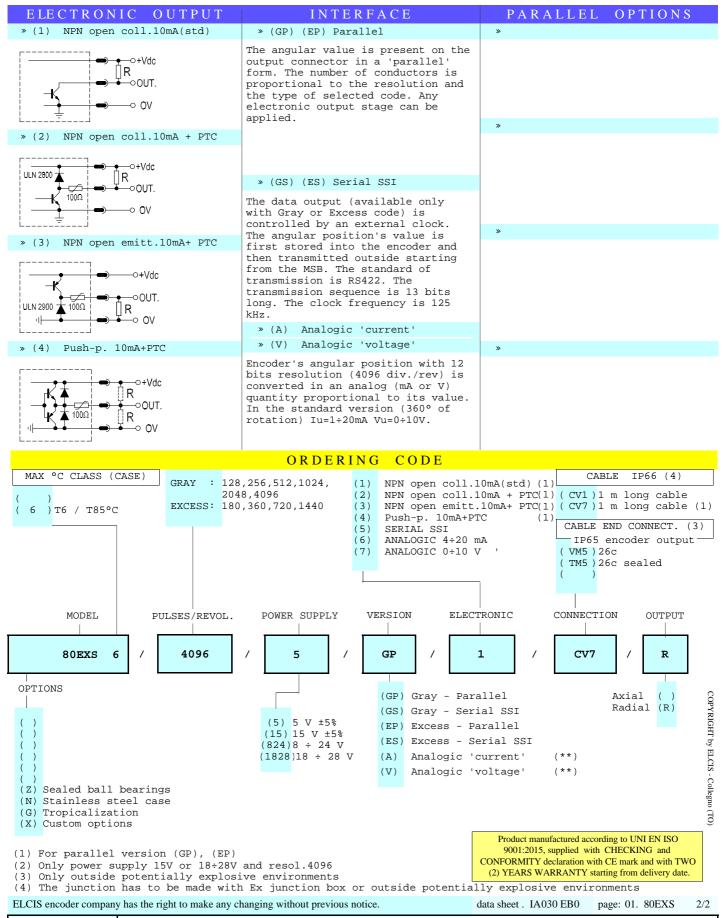
POSSIBLE OPTIONS						
CODE	DESCRIPTION	CODE	DESCRIPTION		CODE	DESCRIPTION
					Z	Sealed ball bearings
					N	Stainless steel case
					G	Tropicalization



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