EAM 63 AX / DX SSI
STAINLESS STEEL MULTITURN ABSOLUTE ENCODER

Thanks to the stainless steel enclosure, the encoder is suitable for food and beverage machinery, cranes and winches for ships, offshore applications, washing systems and all those environments where high corrosion resistance is required. EAM 63 AX / DX is available with SSI output.

- Optical sensor technology (OptoASIC + gears)
- Resolution up to 27 bit (13 bit single turn (8192 ppr) + 14 bit multi-turn (16384 turns))
- Power supply up to +28 VDC with SSI as electronic interface
- Cable or connector output
- Solid shaft diameter up to 10 mm
- Mounting by clamping or centering 2.5” square flange

Specifications

ORDERING CODE
EAM 63AX 4096 / 4096 G 8/28 S X X 10 S 3 PC R .. XXX

SERIES
multiturn absolute encoder EAM

MODEL
clamping flange ø 31.75 mm 63AX
centering square flange ø 31.75 mm 63DX

MULTITURN RESOLUTION
(powers of 2) turns from 2 to 16384

SINGLETURN RESOLUTION
(powers of 2) ppr from 2 to 8192

CODE TYPE
binary B
gray G

POWER SUPPLY
8 ... 28 V DC 8/28

ELECTRONIC INTERFACE
Serial Synchronous Interface - SSI S

LOGIC
to be reported X

OPTIONS
to be reported X

SHAFT DIAMETER
(9.52mm 3/8”) mm 9
mm 10

ENCLOSURE RATING
IP 66 S

MAX ROTATION SPEED
3000 rpm 3

OUTPUT TYPE
cable (standard length 1.5 m) FC

DIRECTION TYPE
radial R

VARIANT
custom version XXX

www.eltra-encoder.eu

tel: +421 552 601 099
e-mail: info@eltra-trade.com
EAM 63 AX

EAM 63 DX

ELECTRICAL SPECIFICATIONS
- Multiturn resolution: from 2 to 16384 turns
- Singleturn resolution: from 2 to 8192 ppr
- Power supply: 8/28 = 7.6 ... 29.4 V DC
- Current consumption: 100 mA
- Output type: RS-422
- Auxiliary inputs (U/D): active high (+Vdc), connect to 0V if not used
- Clock frequency: 100 kHz ... 1 MHz
- SSI monostable time (Tm): 18 µs
- SSI pause time (Tp): > 35 µs
- Accuracy: ± 1/2 LSB
- SSI frame: Tree format (MGB ... LSB) up to 12 bit multiturn = length 25 bit (12MT + 13ST) to 14 bit multiturn = length 27 bit (14MT + 13ST)
- Counting direction: decreasing clockwise (shaft view)
- Start-up time: 150 ms
- Electromagnetic compatibility: IEC 61000-6-2, IEC 61000-6-4

CONNECTIONS
- Function: + Vdc, 0 Volt, data +, data -, clock +, clock -, U/D, shield
- Cable output: red, black, green, brown, yellow, orange or pink, red / blue, shield

MECHANICAL SPECIFICATIONS
- Shaft diameter: ø 9.52 (3/8") / 10 mm
- Enclosure rating: IP 66 (IEC 60529)
- Max rotation speed: 3000 rpm
- Max shaft load: 100 N axial / radial
- Shock: 50 G, 11 ms (IEC 60068-2-27)
- Vibration: 10 G, 10 ... 2000 Hz (IEC 60068-2-6)
- Moment of inertia: 1.5 x 10⁻⁶ kgm²
- Starting torque (at +20°C / +68°F): < 0.06 Nm
- Body material: 1.4305 / AISI 303 stainless steel
- Shaft material: 1.4305 / AISI 303 stainless steel
- Housing material: 1.4305 / AISI 303 stainless steel
- Bearings: 2 ball bearings
- Bearings life: 10⁹ revolutions
- Operating temperature: 0° ... +60°C (+32° ... +140°F)
- Storage temperature: -15° ... +70°C (+5° ... +158°F)
- Weight: 1000 g (35.27 oz)