CAMILLE BAUER

KINAX 2W2-SSI

Capacitive Absolute Encoder
Single-turn with SSI Interface

KINAX 2W2-SSI
Absolute encoder single-turn

Advantages

- Capacitive measurement method
- Contact-free and non-wearing
- Robust and insensitive to interference
- Sense of rotation and zero position adjustable
- High degree of data safety by gray coding and parity check
- Universal in use with the most varied control systems

Mechanics

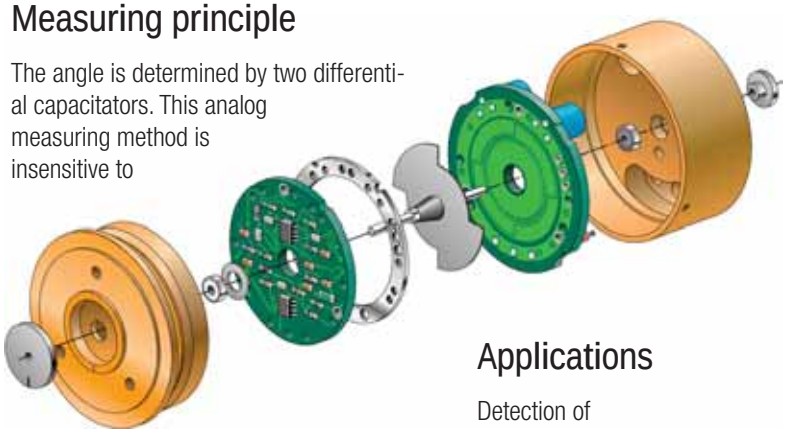
- Flange and housing of light metal
- Shaft of stainless steel
- Precision ball bearing with cover disk

Electronics

- Reverse polarity protection
- Protection against overvoltage peaks
- Highly integrated circuit in SMD technology

Measuring principle

The angle is determined by two differential capacitators. This analog measuring method is insensitive to



shock, vibration, magnetic fields and is superior to optical methods in rough environment. The shaft is fully rotatable without any mechanical stops.

Applications

Detection of

- Angles
- Path lengths, distances
- Inclinations
- Differences between two or several axes

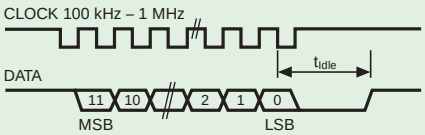
KINAX 2W2-SSI as an assembly device

KINAX 2W2-SSI assembled in an attachment housing for apparatus engineering

KINAX 2W2-SSI assembled in a robust housing for heavy machines and ship-building

Technical data (provisional)

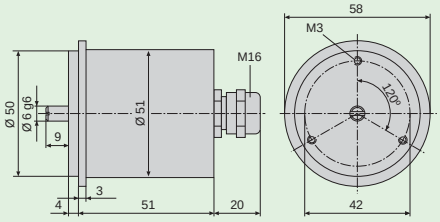
Resolution:	1024 steps per rotation (10 bit)
Accuracy:	0.3°
Coding:	Gray/binary with optional parity check
Meas. frequency:	0.5 kHz
Interface:	SSI (RS422/RS485)



Power supply:	24 VDC (8 – 36 VDC) 20 mA at 24 VDC
SSI clock rate:	100 kHz to 1 MHz
Monoflop time:	20 µs
Interfer.emission:	EN 61000-6-4
Interfer.immunity:	EN 61000-6-2

Housing:	Ø 48 mm
Ingress protect.:	IP 00, IP 43, IP 66 depending on housing
Shaft:	Ø 2, 6 or 19 mm
Torque:	2 mm shaft < 0.001 Ncm 6 mm shaft < 0.03 Ncm
Shaft load:	axial < 16 N radial < 83 N
Revolutions:	max. 10 000 min^{-1}
Operating temp.:	-20…+85 °C
Air humidity:	max. relative humidity 95% non-dewing

Dimensional drawing assembly device



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