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

Measuring principle

The angle is determined by two differential capacitors. 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.

Electronics

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

Applications

Detection of
• Angles
• Path lengths, distances
• Inclinations
• Differences between two or several axes

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)

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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