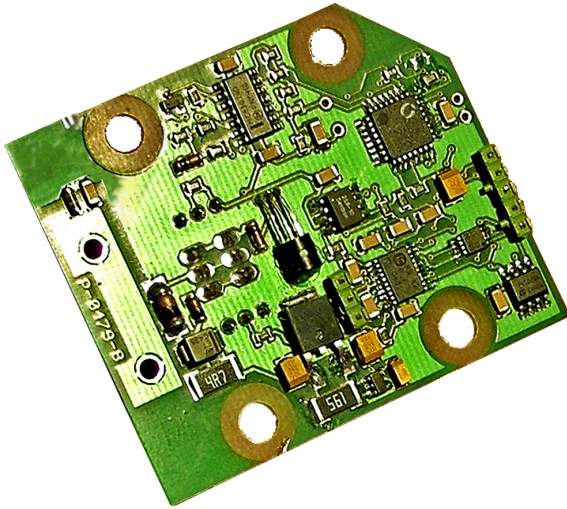


Electromagnetic encoders

Construction set TKA 60 - 360 W B01

Data sheet No.: TKA 11407 CE

Date: 04.03.2013



- Contactless, wear-free sensor system according to the Hall principle
- Measuring range up to 360°
- Output signal 4 to 20 mA (others on request)
- Resolution 12 bits
- Operating temperature: -40 °C to +85 °C
- Zero point and code direction adjustable via jumper

Design and function

Recording of the angular position by means of Hall sensor and signal processing, including generation of the analogue output signal

Technical data

Electrical data

- Sensor system: ASIC with Hall elements (12-bit resolution)
- Operating voltage: 15 to 30 VDC
- Operating current: 50 mA typ. / 60 mA max.
- Measuring range: Max. 360°
- Linearity: ≤ 0.5 % of the end value
- Reproducibility: ≤ 0.05 %
- Temperature drift: < 0.01 % / °K
- Stability: < 0.1 % in 24 h
- Signal path: CW or CCW adjustable via bridge
- Zeroing: Via bridge
- Output current: 4 - 20 mA
- Load resistance (burden): 0 - 500 ohm
- Measuring frequency: Max. 10 kHz
- Rotational speed: 0 to 150 rpm

Environmental data

- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -20 °C to +60 °C (due to packaging)
- Resistance:
 - To shock: 2000 m/s²; 11 ms
DIN EN 60068-2-27
 - To vibration: 10 Hz ... 2000 Hz; 500 m/s²
DIN EN 60068-2-6
- Protection type: IP 00 (DIN EN 60529)

Electrical connection

Screw clamp	Designation
1	+ U _B
2	- U _B
3	I _{out}

Order number

TKA 60	360	W	B	01
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 Electrical and / or
01 mechanical variants

 Signal output:
B 4 to 20 mA

 W Code path CW
C Code path CCW

 Measuring range:
0 ... 360 degrees

TKA Model: TKA 60

Scope of delivery

- Printed circuit board
- Magnet RM44

Electromagnetic multiturn encoders
Construction set TKA 60 - 360 W B01

Dimensions in mm

