



KINAX WT720
Programmable transmitter
for angular position

KINAX WT720

Programmable transmitter for angular position

Main features

- Measuring range and sense of rotation can be adjusted by a switch and two push-buttons
- Simplifies project planning and engineering, short delivery times, low stocking
- Zero position and measuring span are independently adjustable
- Linear and V characteristic of the output value
- The shaft can be turned through full
- Patented measuring method

Application

The KINAX WT 720 converts the angular position of a shaft into a load independent direct current signal, proportional to the angular position. The unit is contact free. It technically extends the delivery program of angular transmitters with a programmable version and thus creates a number of new technical application possibilities. The robust housing makes this unit ideal for the mechanical engineering and vehicle manufacturing.



Rear side view to the push-buttons, the sense of rotation switch and the terminal block.

Technical data

General

Measured quantity: Angle of rotation \curvearrowright °

Measuring principle:

Capacitive method

Differential screen capacitor with contact-free, non-wearing positional pick-up.

Drive shaft fully rotatable without stops

(patented measuring method)

Measuring input

Angle measuring range:

Programmable between 0 ... 360 \curvearrowright °

Drive shaft diameter: 10 mm

Starting torque: < 0.03 Nm

Sense of rotation:

Adjustable for sense of rotation clockwise or counterclockwise

Measuring output

Power supply: 12 to 30 V DC

Protected against wrong polarity

Max. residual ripple: < 0.3% p.p.

Output variable I_A :

Load-independent DC current, proportional to the input angle

Standard range: 4...20 mA, two-wire

Accuracy data

Reference value: 360°

Basic accuracy:

Error limits $\leq \pm 0.5\%$

at reference conditions

Installation data

Material:

Front: aluminium

Back: aluminium anodized

Shaft: rust-proof, hardened steel

Mounting position: Any

Connections:

Cable gland metal

Plug metal (M12 / 2 pol)

Electrical connection:

Spring-type terminal block

Weight: Approx. 360 g

Admissible static loading of shaft:

Max. 80 N (radial)

Max. 40 N (axial)

Clearance influence: $\pm 0.1\%$

Fixation:

3 cheesehead screws M4 or with

3 clamps

Regulations

Electromagnetic compatibility:

The standards EN 61 000-6-4 and

EN 61 000-6-2 are observed

Impulse voltage withstand:

EN 61 000-4-5, test severity level 2

(1 kV, 1.2/50 μ s)

Test voltage:

750 V DC, 1 min.

All connections against housing

Admissible common-mode voltage:

100 V, 50 Hz

Housing protection:

IP 67 acc. to EN 60 529

IP 69k nach EN 40 050-9

Environmental conditions

Climatic rating:

Standard

Temperature – 20 to + 85 °C

Relative humidity $\leq 90\%$, non-condensing

Improved climatic rating

Temperature – 40 to + 85 °C

Relative humidity $\leq 95\%$, non-condensing

Transportation and storage temperature:

– 40 to + 85 °C

Vibration:

IEC 60068-2-6, 100 m/s² / 10 – 500 Hz

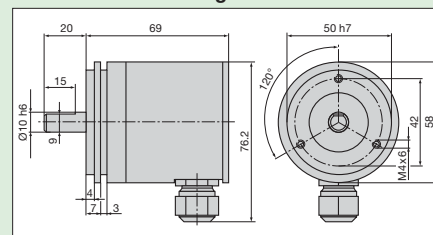
every 2 h in 3 directions

Shock:

IEC 60068-2-27, ≤ 500 m/s² / 11 ms

10 pulses per axis and direction

Dimensional drawing



CAMILLE BAUER

Rely on us.

Camille Bauer AG
Aargauerstrasse 7
CH-5610 Wohlen / Switzerland
Phone +41 56 618 21 11
Fax +41 56 618 35 35
info@camillebauer.com
www.camillebauer.com