Incremental-Encoder IMF 36

+ Incremental interface

+ Bearing free

+ Number of pulses per revolution up to 2.048

+ Encapsulated electronics

+ Protection class up to IP 69K

+ Magnetic scanning technology

Characteristics

Supply voltage.. 11…27 VDC, 5 VDC ±5 %

Current consumption without load .... < 40 mA

Possible number of pulses/revolution:

   - Binary.. 8, 16, 32, 64, 128, 256, 512, 1.024, 2.048

   - Decimal 10, 20, 25, 40, 50, 80, 100, 125, 200, 250, 400, 500

Outputs, 11 … 27 VDC

   - Incremental signals .... K1, K1 neg, K2, K2 neg

   - Zero pulse .... K0, K0 neg, 1 pulse per revolution

   - Output frequency .... ≤ 150 kHz

   - Supply voltage .... 11 … 27 VDC

Outputs, 5 VDC

   - Incremental signals .... K1, K1 neg, K2, K2 neg

   - Zero pulse .... K0, K0 neg, 1 pulse per revolution

   - Output frequency .... ≤ 150 kHz

   - Supply voltage .... 11 … 27 VDC, 5 VDC

Concentricity tolerance [1].. 0.2 mm

Permissible axial backlash [1]... ± 0.15 mm

Connection.. axial cable outlet

Mass.. 0.15 kg

[1] see reference lines in the dimension drawing

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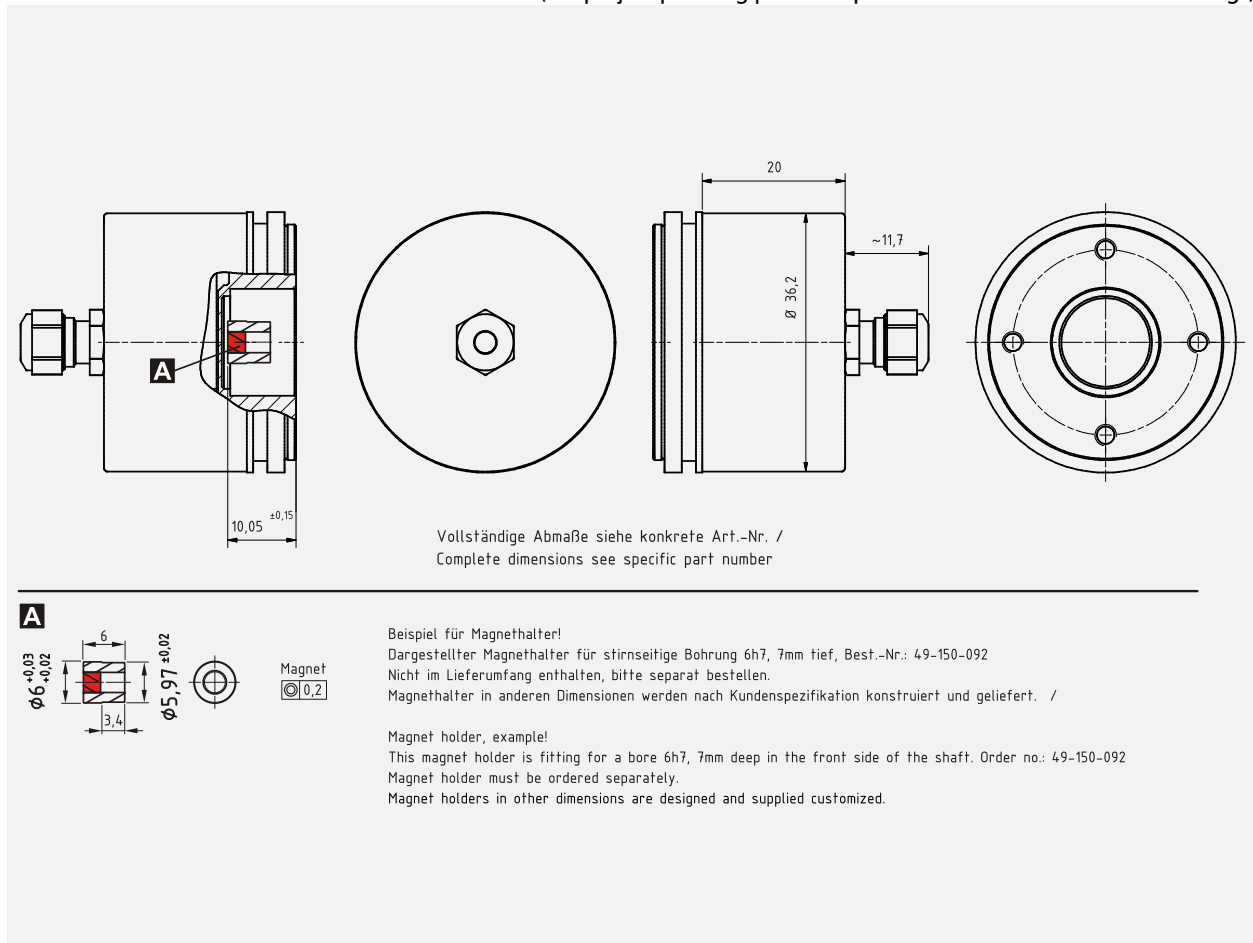
Environmental conditions

Vibration, DIN EN 60068-2-6 .... ≤ 100 m/s^2, sine 50-2000 Hz

Shock, DIN EN 60068-2-27... ≤ 1000 m/s^2, half-sine 11ms

EMC

    - Immunity to disturbance, DIN EN 61000-6-2

    - Transient emissions, DIN EN 61000-6-3

Working temperature .... -25 °C…+70 °C

Storage temperature .... -20 °C…+85 °C, dry

Relative humidity, DIN EN 60068-3-4 .... 98 %

Protection class, DIN EN 60529.. IP 65

    - Option DIN 40050-9.. IP 69K

Dimension drawing

(For project planning please request customized dimensional drawing!)

20

~11,7

Ø 36,2

10,05 ±0,15

Vollständige Abmaße siehe konkrete Art.-Nr. /
Complete dimensions see specific part number

A

Ø 6 $^{+0,03}_{+0,02}$

6

3,4

Ø 5,97 ±0,02

Magnet 0,2

Beispiel für Magnethalter!
Dargestellter Magnethalter für stirnseitige Bohrung 6h7, 7mm tief, Best.-Nr.: 49-150-092
Nicht im Lieferumfang enthalten, bitte separat bestellen.
Magnethalter in anderen Dimensionen werden nach Kundenspezifikation konstruiert und geliefert. /

Magnet holder, example!
This magnet holder is fitting for a bore 6h7, 7mm deep in the front side of the shaft. Order no.: 49-150-092
Magnet holder must be ordered separately.
Magnet holders in other dimensions are designed and supplied customized.

Subject to change

www.tr-electronic.de