

# Miniature incremental encoders

## FNC F08 IM Series



### Features

- Compact miniature design
- A, B, Z incremental signal output
- Differential RS 422 incremental output signals
- Super small non-contact magnetic technology
- 8 mm diameter body

### Technical data - electrical ratings

|                         |                        |
|-------------------------|------------------------|
| Voltage supply          | 5VDC $\pm$ %5          |
| Interface               | ABZ; Line Driver RS422 |
| Resolution (steps/turn) | up to 4096 CPR         |

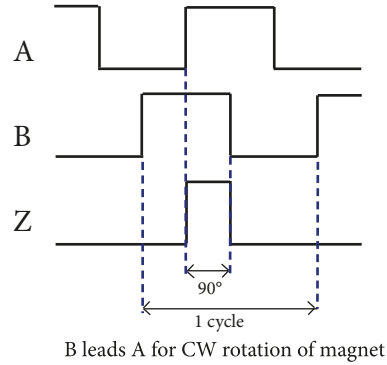
### Technical data - mechanical design

|                |                     |
|----------------|---------------------|
| Dimensions     | 8 mm                |
| Materials      | Housing : Aluminium |
| Magnet         | 4x4 mm NdFeB        |
| Wire thickness | AWG28               |

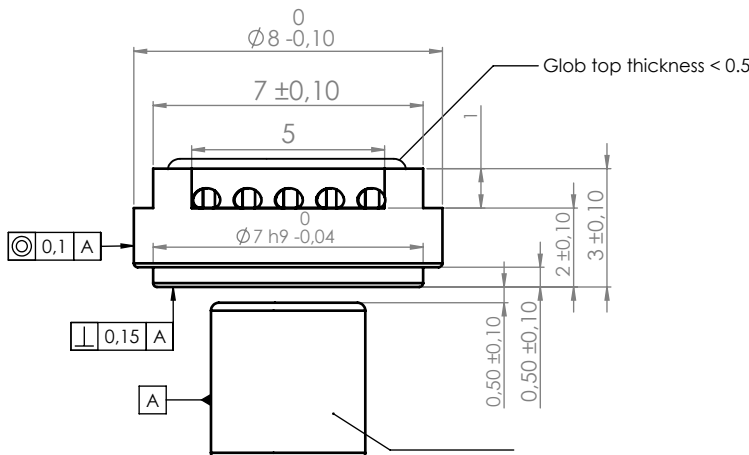
### Connections

| Function | Color | Renk    | Explanation    |
|----------|-------|---------|----------------|
| +5V      | Red   | Kırmızı | Supply Voltage |
| GND      | Blue  | Mavi    | Ground         |
| A        | Gray  | Gri     | A Channel      |
| B        | Green | Yeşil   | B Channel      |
| Z        | White | Beyaz   | Z Channel      |

### Pulse Diagram



### Mechanical Dimensions



### Encoder Part Number

|                                        |   |                                                             |    |    |
|----------------------------------------|---|-------------------------------------------------------------|----|----|
| FNC                                    | F | 08                                                          | IM | 10 |
| Outer Diameter<br>08: 8 mm             |   | Resolution<br>8 : 1024 CPR<br>9 : 2048 CPR<br>10 : 4096 CPR |    |    |
| Output Type<br>IM : Incremental Output |   |                                                             |    |    |