

# Low height servo encoder

## FNC 35H Series



### Features

- Hollow shaft
- Robust mechanical and electrical construction
- Differential RS 422 output signals
- Shaft can mount from front or back side with setscrew
- Thin design

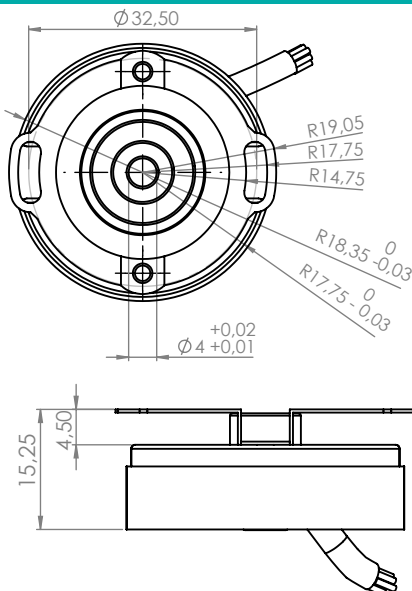
### Technical data - Mechanical Ratings

|                 |                                   |
|-----------------|-----------------------------------|
| Dimensions:     | 35 mm                             |
| Shaft Diameter: | 4, 5 mm                           |
| Materials:      | Housing: Aluminium<br>Cover : ABS |

### Cable Wiring

| Function | Color  | Renk    | Explanation        |
|----------|--------|---------|--------------------|
| +VB      | Brown  | Kahve   | Supply Voltage     |
| GND      | White  | Beyaz   | Ground             |
| A        | Green  | Yeşil   | A Channel          |
| A'       | Red    | Kırmızı | A Inverted Channel |
| B        | Yellow | Sarı    | B Channel          |
| B'       | Pink   | Pembe   | B Inverted Channel |
| Z        | Gray   | Gri     | Z Channel          |
| Z'       | Blue   | Mavi    | Z Inverted Channel |
| Shield   | Black  | Siyah   | Shield             |

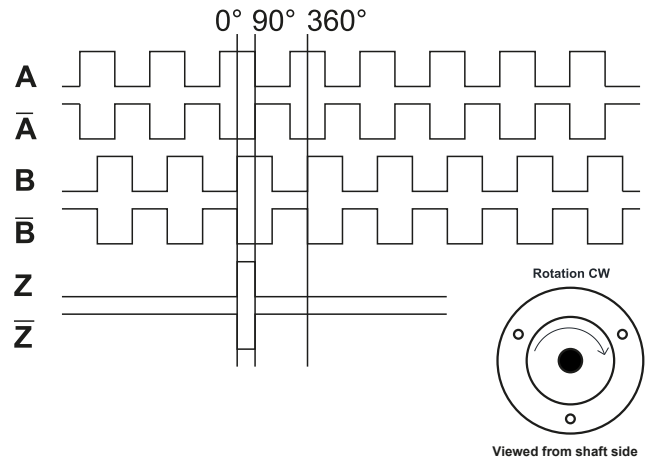
### Mechanical Dimensions



### Technical data - Electrical Ratings

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Supply Voltage:          | 5V DC $\pm 5\%$                                    |
| Interface:               | Line Driver RS422                                  |
| Protection:              | Overvoltage protection<br>Short-circuit protection |
| Resolution (steps/turn): | 500 to 2500                                        |
| Output frequency:        | up to 200 kHz                                      |
| Output Signals:          | 90° shifted A and B,<br>and inverted A and B       |

### Pulse Diagram



### Encoder Part Number

|                                                                                              |           |          |          |          |                                                                              |             |             |
|----------------------------------------------------------------------------------------------|-----------|----------|----------|----------|------------------------------------------------------------------------------|-------------|-------------|
| <b>FNC</b>                                                                                   | <b>35</b> | <b>H</b> | <b>5</b> | <b>4</b> | <b>5V</b>                                                                    | <b>1000</b> | <b>- R1</b> |
| <b>Housing</b><br>35 : 35 mm                                                                 |           |          |          |          |                                                                              |             |             |
| <b>Flange Type</b><br>H : Hollow Shaft                                                       |           |          |          |          |                                                                              |             |             |
| <b>Shaft Diameter</b><br>4, 5 mm                                                             |           |          |          |          |                                                                              |             |             |
| <b>Output Channels</b><br>1 : A<br>2 : AB<br>3 : ABZ<br>4 : AB + A' B'<br>6 : ABZ + A' B' Z' |           |          |          |          |                                                                              |             |             |
|                                                                                              |           |          |          |          | <b>Electrical Connections</b><br>R1 : 1 meter cable<br>Connector is optional |             |             |
|                                                                                              |           |          |          |          | <b>PPR Options</b><br>500, 512, 625, 1000, 1024<br>1250, 2000, 2048, 2500    |             |             |
|                                                                                              |           |          |          |          | <b>Supply Voltage</b><br>5V : 5V in / out<br>30V : 5 - 30V in / out          |             |             |