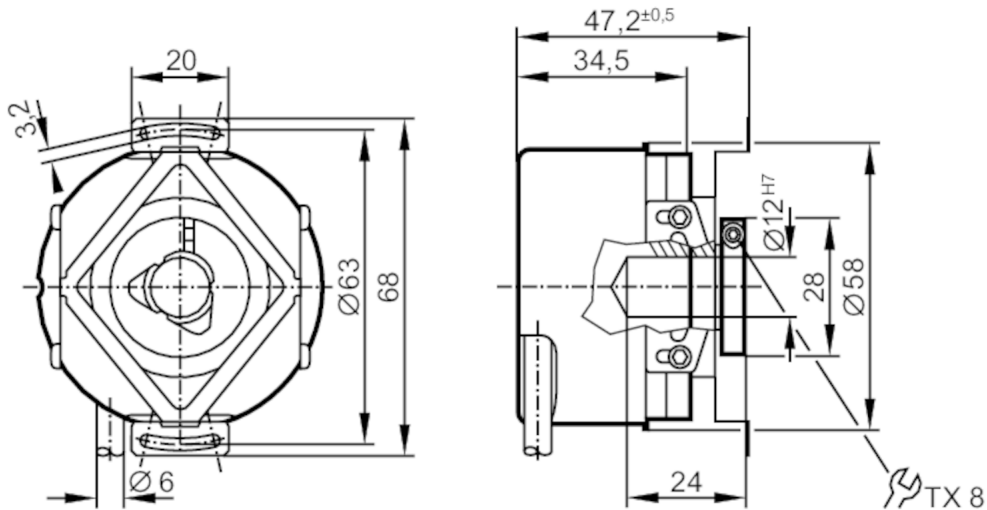


# RO6350



## Incremental encoder with hollow shaft

RO-5000-I24/N1U



### Application

|                    |             |
|--------------------|-------------|
| Function principle | incremental |
|--------------------|-------------|

### Electrical data

|                          |            |
|--------------------------|------------|
| Operating voltage [V]    | 10...30 DC |
| Current consumption [mA] | < 150      |

### Outputs

|                                   |        |
|-----------------------------------|--------|
| Electrical design                 | HTL    |
| Max. current load per output [mA] | 50     |
| Switching frequency [kHz]         | 300    |
| Type of short-circuit protection  | < 60 s |
| Phase difference A und B [°]      | 90     |

### Measuring/setting range

|            |                 |
|------------|-----------------|
| Resolution | 5000 resolution |
|------------|-----------------|

### Operating conditions

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Ambient temperature [°C]       | -40...100                                           |
| Max. relative air humidity [%] | 98                                                  |
| Protection                     | IP 64; (on the housing: IP 67; on the shaft: IP 64) |

### Tests / approvals

|                      |       |
|----------------------|-------|
| Shock resistance     | 200 g |
| Vibration resistance | 30 g  |
| MTTF [years]         | 190   |

# RO6350



## Incremental encoder with hollow shaft

RO-5000-I24/N1U

| Mechanical data               |         |                                             |
|-------------------------------|---------|---------------------------------------------|
| Weight                        | [g]     | 444.4                                       |
| Dimensions                    | [mm]    | Ø 58 / L = 35.5                             |
| Materials                     |         | aluminium                                   |
| Max. revolution, mechanical   | [U/min] | 12000                                       |
| Max. starting torque          | [Nm]    | 1                                           |
| Reference temperature torque  | [°C]    | 20                                          |
| Shaft design                  |         | hollow shaft open to one side               |
| Shaft diameter                | [mm]    | 12                                          |
| Shaft fit                     |         | H7                                          |
| Shaft material                |         | stainless steel                             |
| Installation depth of shaft   | [mm]    | 10                                          |
| Max. axial shaft misalignment | [mm]    | 1; (max. radial shaft alignment: ± 0,05 mm) |

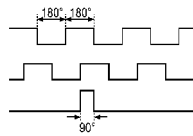
| Remarks |                      |
|---------|----------------------|
| Notes   | discontinued article |

### Electrical connection

Cable: 1 m, PUR; Maximum cable length: 300 m; radial, can also be used axially

|             |                  |
|-------------|------------------|
| brown       | A                |
| green       | A inverted       |
| grey        | B                |
| pink        | B inverted       |
| red         | 0 index          |
| black       | 0 index inverted |
| blue        | L+ sensor        |
| white       | 0V sensor        |
| brown/green | L+ (Up)          |
| white/green | 0V (Un)          |
| screen      | housing          |
| lilac       | failure inverted |

### Diagrams and graphs

|               |                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|
| Pulse diagram |  <p>Output A<br/>Output B<br/>0 index</p> |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|