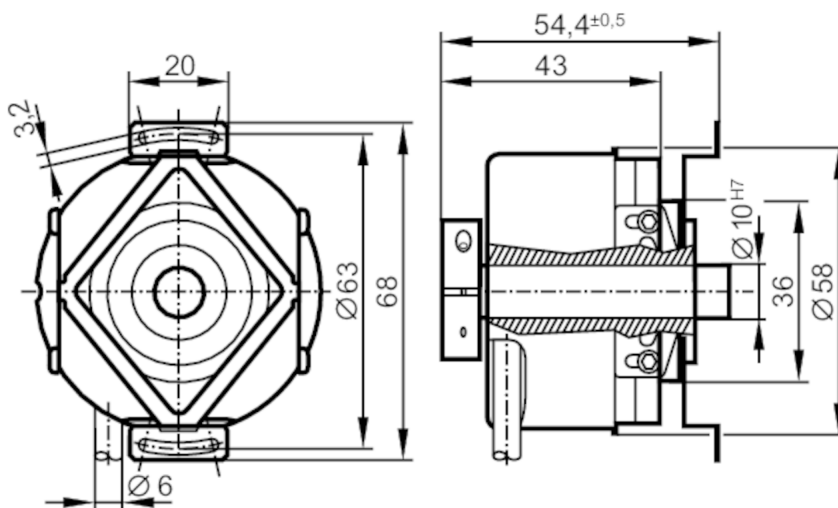




Incremental encoder with hollow shaft

RO-2500-I24/N11

Article no longer available - archive entry



Product characteristics

| | |
|---------------------|-------------------------|
| Resolution | 2500 resolution |
| Shaft design | continuous hollow shaft |
| Shaft diameter [mm] | 10 |

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 | 2500 resolution |
|------------|-----------------|

Operating conditions

| | |
|--------------------------------|---|
| Ambient temperature [°C] | -30...85 |
| Note on ambient temperature | firmly laid cable: -30 °C |
| Max. relative air humidity [%] | 98 |
| Protection | IP 64; (on the housing: IP 66; on the shaft: IP 64) |



Incremental encoder with hollow shaft

RO-2500-I24/N11

Tests / approvals

| | |
|----------------------|-------|
| Shock resistance | 200 g |
| Vibration resistance | 30 g |

Mechanical data

| | |
|-------------------------------------|---|
| Weight [g] | 454.6 |
| Dimensions [mm] | Ø 58 / L = 54.4 |
| Material | aluminum |
| Max. revolution, mechanical [U/min] | 12000; (when using both shaft clamping rings) |
| Max. starting torque [Nm] | 2.5 |
| Reference temperature torque [°C] | 20 |
| Shaft design | continuous hollow shaft |
| Shaft diameter [mm] | 10 |
| Shaft fit | H7 |
| Shaft material | stainless steel |
| Installation depth/shaft [mm] | 10 |
| Max. axial shaft misalignment [mm] | 1; (max. radial shaft alignment: ± 0,05 mm) |

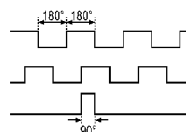
Electrical connection

Cable: 1 m, PUR; 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 | error inverted |

Diagrams and graphs

Pulse diagram



Direction of rotation clockwise (looking at the shaft)