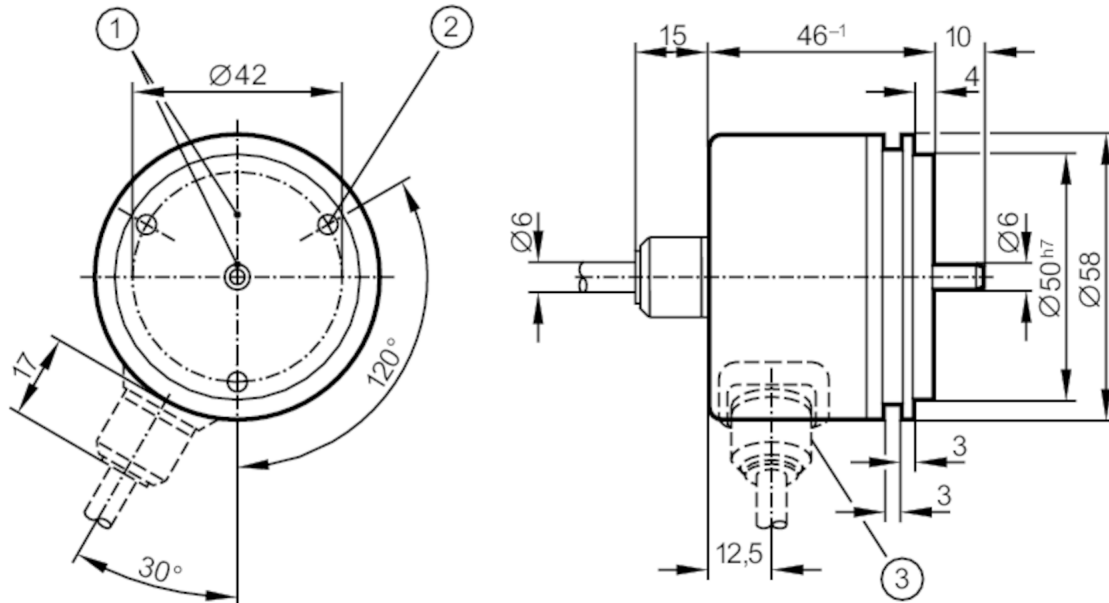




## Incremental encoder with solid shaft

RU-2500-I24/N8

Article no longer available - archive entry



- |   |                |
|---|----------------|
| 1 | reference mark |
| 2 | M4 Depth 5 mm  |



## Product characteristics

|                     |                 |
|---------------------|-----------------|
| Resolution          | 2500 resolution |
| Shaft design        | solid shaft     |
| Shaft diameter [mm] | 6               |

## 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 and B [°]      | 90     |

### Measuring/setting range

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

## Operating conditions

|                     |      |           |
|---------------------|------|-----------|
| Ambient temperature | [°C] | -20...85  |
| Storage temperature | [°C] | -30...100 |
| Protection          |      | IP 64     |

## Tests / approvals

|                  |              |
|------------------|--------------|
| Shock resistance | 100 g (6 ms) |
|------------------|--------------|



## Incremental encoder with solid shaft

RU-2500-I24/N8

|                      |                     |
|----------------------|---------------------|
| Vibration resistance | 10 g (55...2000 Hz) |
|----------------------|---------------------|

### Mechanical data

|                                           |         |                |
|-------------------------------------------|---------|----------------|
| Dimensions                                | [mm]    | Ø 58 / L = 46  |
| Materials                                 |         | aluminium      |
| Max. revolution, mechanical               | [U/min] | 12000          |
| Max. starting torque                      | [Nm]    | 1              |
| Reference temperature                     | [°C]    | 20             |
| Shaft design                              |         | solid shaft    |
| Shaft diameter                            | [mm]    | 6              |
| Shaft material                            |         | steel (1.4104) |
| Max. shaft load axial (at the shaft end)  | [N]     | 10             |
| Max. shaft load radial (at the shaft end) | [N]     | 20             |
| Fixing flange                             |         | synchro-flange |

### Electrical connection

Cable: 8 m, PUR; radial

|             |                  |
|-------------|------------------|
| 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)          |
| lilac       | failure inverted |
| screen      | housing          |

### Diagrams and graphs

|               |                                                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Pulse diagram |  <p>direction of rotation clockwise (looking at the shaft)</p> |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|