

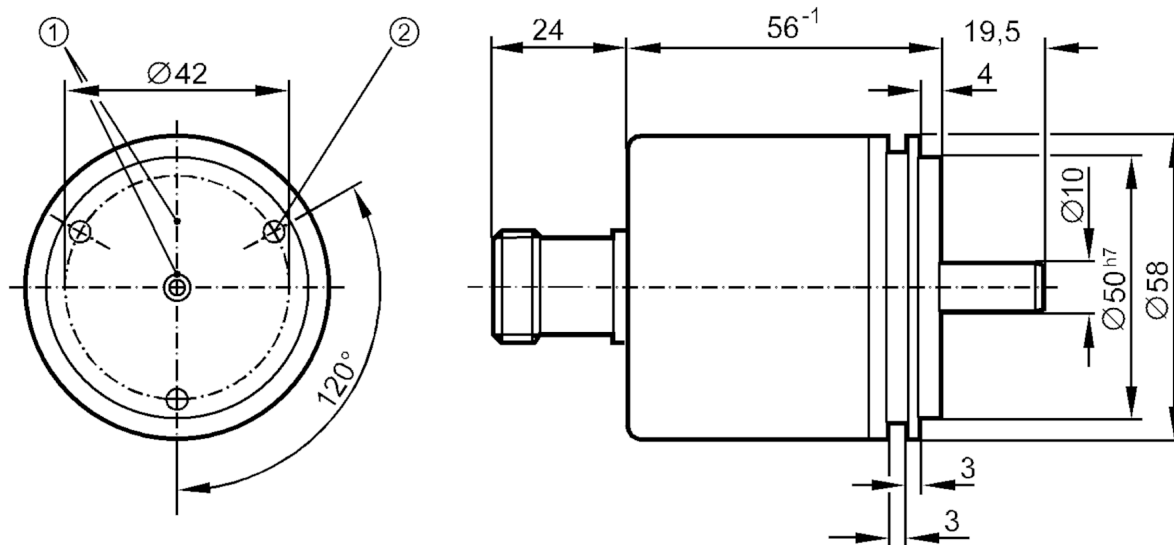
# RU6096



## Incremental encoder with solid shaft

RU-6000-I24/J L

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- 1 reference mark
- 2 M4 Depth 5 mm



### 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 6000 resolution

### Operating conditions

Ambient temperature [°C] -30...85  
Storage temperature [°C] -30...100  
Protection IP 66



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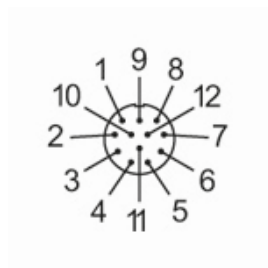
| Tests / approvals                         |                      |                     |
|-------------------------------------------|----------------------|---------------------|
| Shock resistance                          |                      | 100 g (6 ms)        |
| Vibration resistance                      |                      | 15 g (55...2000 Hz) |
| MTTF                                      | [years]              | 190                 |
| Mechanical data                           |                      |                     |
| Weight                                    | [g]                  | 406                 |
| Dimensions                                | [mm]                 | Ø 58 / L = 99.5     |
| Materials                                 |                      | aluminium           |
| Max. revolution, mechanical [U/min]       |                      | 12000               |
| Max. starting torque                      | [Nm]                 | 1                   |
| Reference temperature torque              | [°C]                 | 20                  |
| Shaft design                              |                      | solid shaft         |
| Shaft diameter                            | [mm]                 | 10                  |
| 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      |
| Remarks                                   |                      |                     |
| Notes                                     | discontinued article |                     |
| Electrical connection                     |                      |                     |
| 1                                         | B inverted           |                     |
| 2                                         | L+ sensor            |                     |
| 3                                         | 0 index              |                     |
| 4                                         | 0 index inverted     |                     |
| 5                                         | A                    |                     |
| 6                                         | A inverted           |                     |
| screen                                    | housing              |                     |
| 7                                         | failure inverted     |                     |
| 8                                         | B                    |                     |
| 9                                         | n.c.                 |                     |
| 10                                        | 0V (Un)              |                     |
| 11                                        | 0V sensor            |                     |
| 12                                        | L+                   |                     |
| Connector: 1 x M23 (ifm 1001.4), axial    |                      |                     |

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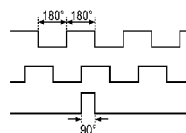
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### Diagrams and graphs

Pulse diagram



Output A

Output B

0 index

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