

# RU6046

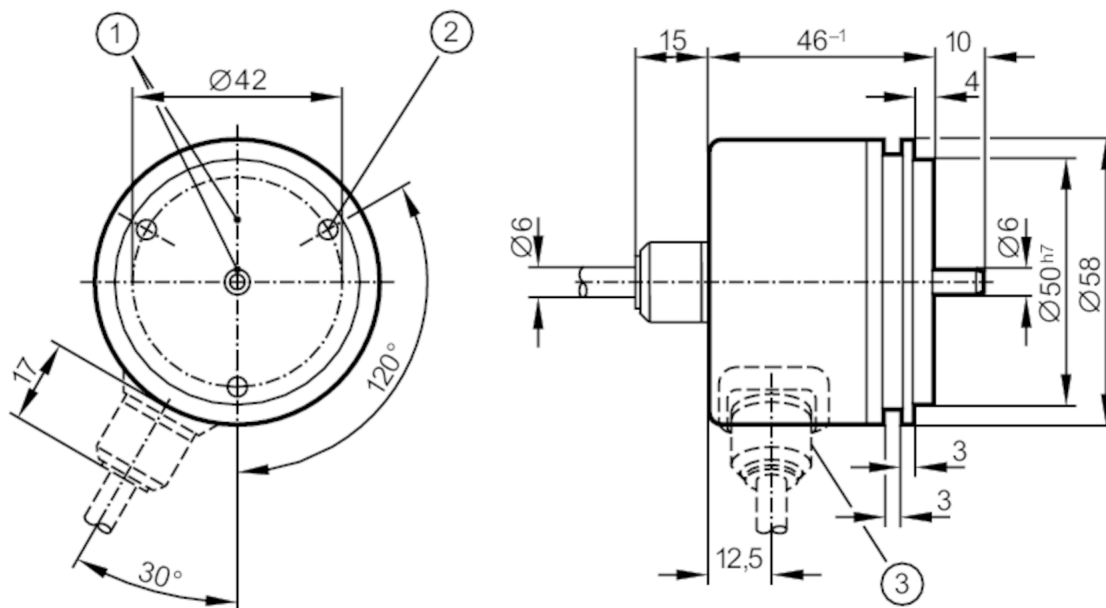
## Incremental encoder with solid shaft

RU-6000-I24/L2



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/RUP500 + E12402



- 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  
Note on ambient temperature for firmly laid cable: -30 °C  
Storage temperature [°C] -30...100  
Max. relative air humidity [%] 98  
Protection IP 64



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| Tests / approvals                         |                  |                      |
|-------------------------------------------|------------------|----------------------|
| Shock resistance                          |                  | 100 g (6 ms)         |
| Vibration resistance                      |                  | 10 g (55...2000 Hz)  |
| MTTF                                      | [years]          | 190                  |
| Mechanical data                           |                  |                      |
| Weight                                    | [g]              | 490.1                |
| Dimensions                                | [mm]             | Ø 58 / L = 46        |
| 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]             | 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       |
| Remarks                                   |                  |                      |
| Notes                                     |                  | discontinued article |
| Electrical connection                     |                  |                      |
| Cable: 2 m, PUR; axial                    |                  |                      |
|                                           |                  |                      |
| 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          |                      |

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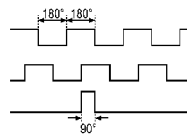
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### Diagrams and graphs

Pulse diagram



Output A

Output B

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