

# RB6005

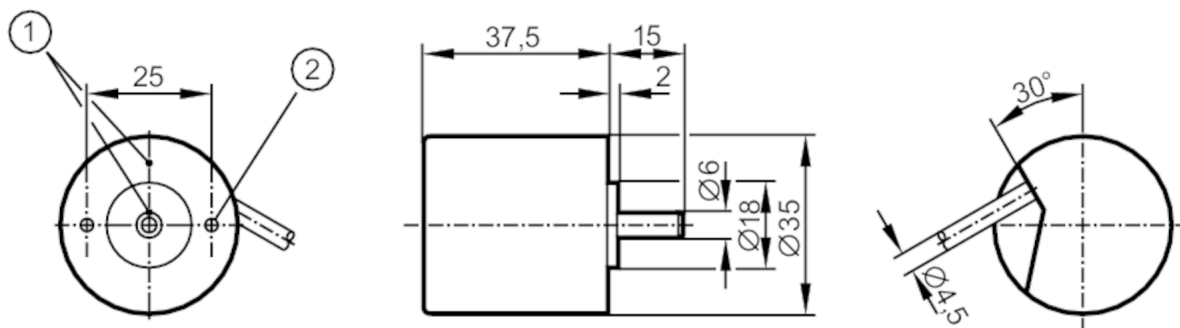


## Incremental encoder with solid shaft

RB-0050-I24/L2

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- 1 reference mark
- 2 M3 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] 160  
Type of short-circuit protection < 60 s  
Phase difference A und B [°] 90

### Measuring/setting range

Resolution 50 resolution

### Operating conditions

Ambient temperature [°C] -40...70  
Note on ambient temperature for firmly laid cable  
Max. relative air humidity [%] 75; (briefly: 95 %)  
Protection IP 64

### Tests / approvals

Shock resistance 100 g (6 ms)  
Vibration resistance 10 g (55...2000 Hz)  
MTTF [years] 190



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| Mechanical data                           |         |                 |
|-------------------------------------------|---------|-----------------|
| Weight                                    | [g]     | 261.4           |
| Dimensions                                | [mm]    | Ø 35 / L = 52.5 |
| Materials                                 |         | aluminium       |
| Max. revolution, mechanical               | [U/min] | 10000           |
| 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]     | 5               |
| Max. shaft load radial (at the shaft end) | [N]     | 10              |

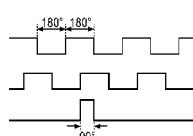
| Remarks |                      |
|---------|----------------------|
| Notes   | discontinued article |

## Electrical connection

Cable: 2 m, PUR; radial, can also be used axially

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

## Diagrams and graphs

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

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