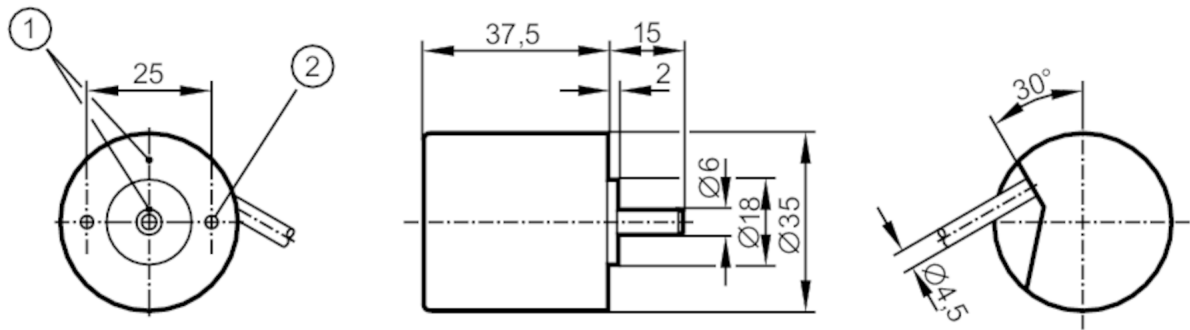


# RB6014



## Incremental encoder with solid shaft

RB-0400-I24/L2



- 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 | 400 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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## Incremental encoder with solid shaft

RB-0400-I24/L2

| 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              |

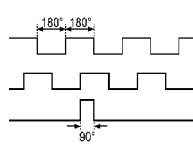
| Remarks |                      |
|---------|----------------------|
| Notes   | discontinued article |

### 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> |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|