



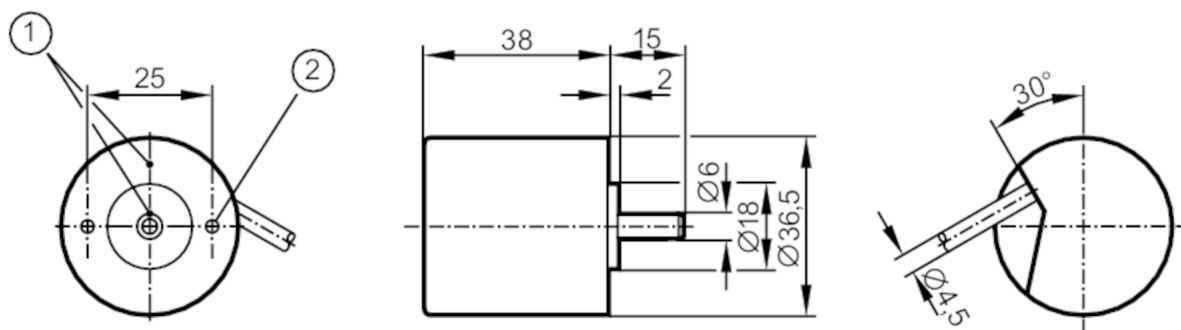
## Incremental encoder with solid shaft

RB-0120-I24/L2

Article no longer available - archive entry

Alternative articles: RB6009

When selecting an alternative article and accessories please note that technical data may differ!



- 1 reference mark
- 2 M3 Depth 5 mm



### Product characteristics

|                     |                |
|---------------------|----------------|
| Resolution          | 120 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]         | 160    |
| Type of short-circuit protection  | < 60 s |
| Phase difference A and B [°]      | 90     |

### Measuring/setting range

|            |                |
|------------|----------------|
| Resolution | 120 resolution |
|------------|----------------|

### Operating conditions

|                                |           |
|--------------------------------|-----------|
| Ambient temperature [°C]       | -20...70  |
| Storage temperature [°C]       | -30...100 |
| Max. relative air humidity [%] | 98        |
| Protection                     | IP 64     |

### Tests / approvals

|                      |                     |
|----------------------|---------------------|
| Shock resistance     | 100 g (6 ms)        |
| Vibration resistance | 10 g (55...2000 Hz) |

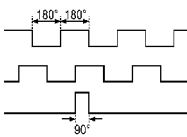


## Incremental encoder with solid shaft

RB-0120-I24/L2

| Mechanical data                           |         |                 |
|---|---------|-----------------|
| Dimensions                                | [mm]    | Ø 36.5 / L = 38 |
| 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              |

| Electrical connection                             |                  |
|---|------------------|
| Cable: 2 m, PUR; radial, can also be used axially |                  |
| white/green                                       | 0V               |
| brown/green                                       | L+               |
| brown   | A                |
| green   | 0V A             |
| grey  | B                |
| pink  | 0V B             |
| red   | 0 index          |
| black   | 0V 0 index       |
| lilac   | failure inverted |
| screen  | housing          |

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