# **RV6010**

### Incremental encoder with solid shaft

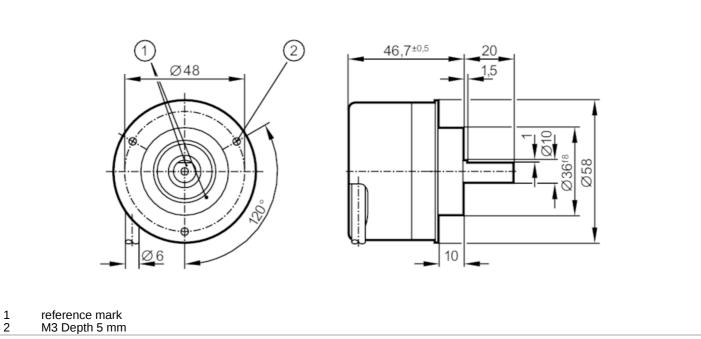




### Article no longer available - archive entry

#### Alternative articles: RV3500

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





| Product characteristics          |       |                               |
|----------------------------------|-------|-------------------------------|
| Resolution                       |       | 250 resolution                |
| Shaft design                     |       | solid shaft                   |
| Shaft diameter                   | [mm]  | 10                            |
| Application                      |       |                               |
| Function principle               |       | incremental                   |
| Electrical data                  |       |                               |
| Operating voltage                | [V]   | 1030 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 and B         | [°]   | 90                            |
| Measuring/setting range          |       |                               |
| Resolution                       |       | 250 resolution                |
| Operating conditions             |       |                               |
| Ambient temperature              | [°C]  | -40100                        |
| Note on ambient temperature      |       | for firmly laid cable: -40 °C |

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## Incremental encoder with solid shaft





| Max. relative air                   | humidity           | [%]       | 98   |
|-------------------------------------|--------------------|-----------|--|
| Protection                          |                    |           | IP 64; (on the housing: IP 67; on the shaft: IP 64)    |
| Tests / approval                    | s                  |           |  |
| Shock resistance                    | <b>,</b>           |           | 200 g  |
| Vibration resistar                  | nce                |           | 30 g   |
| Mechanical data                     | ì                  |           |  |
| Weight                              |                    | [g]       | 471  |
| Dimensions                          |                    | [mm]      | Ø 58 / L = 46.7  |
| Materials                           |                    |           | aluminium  |
| Max. revolution, mechanical [U/min] |                    | U/min]    | 12000  |
| Max. starting tord                  | que                | [Nm]      | 1  |
| Reference tempe torque              | erature            | [°C]      | 20   |
| Shaft design                        |                    |           | solid shaft  |
| Shaft diameter                      |                    | [mm]      | 10   |
| Shaft material                      |                    |           | steel (1.4104)   |
| Max. shaft load a shaft end)        | ixial (at the      | [N]       | 10   |
| Max. shaft load rashaft end)        | adial (at the      | [N]       | 20   |
| Electrical conne                    | ection             |           |  |
| Cable: 2 m, PUR;                    | Maximum c          | able lenç | gth: 300 m; radial, can also be used axially           |
| brown                               | Α                  |           |  |
| green                               | A inverted         |           |  |
| grey                                | В                  |           |  |
| pink                                | B inverted         |           |  |
| red                                 | 0 index            |           |  |
| black                               | 0 index in         | /ertea    |  |
| blue                                | L+ sensor          |           |  |
| white                               | 0V sensor          |           |  |
| brown/green                         | L+ (Up)<br>0V (Un) |           |  |
| white/green<br>lilac                | failure inve       | artad     |  |
| screen                              | housing            | JI ICU    |  |
| Diagrams and g                      |                    |           |  |
|                                     | ιαμπο              |           |  |
| Pulse diagram                       |                    |           |  |
|                                     |                    |           | direction of rotation clockwise (looking at the shaft) |