RV6001

Incremental encoder with solid shaft

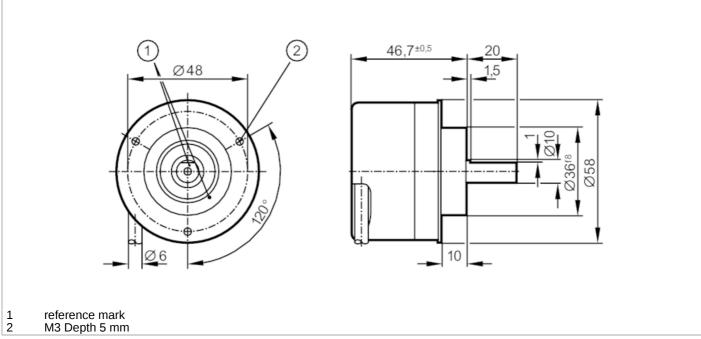




Article no longer available - archive entry

Alternative articles: RV3500

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





| Product characteristics | | |
|----------------------------------|-------|---------------------------|
| Resolution | | 50 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 und B | [°] | 90 |
| Measuring/setting range | | |
| Resolution | | 50 resolution |
| Operating conditions | | |
| Ambient temperature | [°C] | -40100 |
| Note on ambient temperature | | firmly laid cable: -40 °C |

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| Max. relative air humidity | [%] | 98 | |
|--|------------|--|--|
| Protection | | IP 64; (on the housing: IP 67; on the shaft: IP 64) | |
| Tests / approvals | | | |
| Shock resistance | | 200 g | |
| Vibration resistance | | 30 g | |
| Mechanical data | | | |
| Weight | [g] | 471 | |
| Dimensions | [mm] | Ø 58 / L = 46.7 | |
| Material | | aluminum | |
| Max. revolution, mechanical [U/min] | | 12000 | |
| Max. starting torque | [Nm] | 1 | |
| Reference temperature torque | [°C] | 20 | |
| Shaft design | | solid shaft | |
| Shaft diameter | [mm] | 10 | |
| Shaft material | | steel (1.4104) | |
| Max. shaft load axial (at the shaft end) | ne [N] | 10 | |
| Max. shaft load radial (at t shaft end) | he [N] | 20 | |
| Electrical connection | | | |
| Cable: 2 m, PUR; Maximum cable length: 300 m; radial, can also be used axially | | | |
| brown A | | | |
| green A inve | rted | | |
| grey B | | | |
| pink B inve | | | |
| red 0 index | | | |
| | x inverted | | |
| blue L+ sen white 0V ser | | | |
| white 0V ser brown/green L+ (Up | | | |
| white/green 0V (Ur | | | |
| | nverted | | |
| screen housin | | | |
| Diagrams and graphs | | | |
| | | | |
| Pulse diagram | | | |
| | | Direction of rotation clockwise (looking at the shaft) | |