



## Incremental encoder with solid shaft

RV-0050-I24/L2

Article no longer available - archive entry

Alternative articles: RV3500

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          | 50 resolution |
| Shaft design        | solid shaft   |
| Shaft diameter [mm] | 10            |

## 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]         | 300    |
| Type of short-circuit protection  | < 60 s |
| Phase difference A and B [°]      | 90     |

## Measuring/setting range

|            |               |
|------------|---------------|
| Resolution | 50 resolution |
|------------|---------------|

## Operating conditions

|                             |                               |
|-----------------------------|-------------------------------|
| Ambient temperature [°C]    | -40...100                     |
| Note on ambient temperature | for 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 |
| Materials                                     | aluminium       |
| 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) [N]  | 10              |
| Max. shaft load radial (at the shaft end) [N] | 20              |

## Electrical connection

Cable: 2 m, PUR; Maximum cable length: 300 m; radial, can also be used axially

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

## Diagrams and graphs

## Pulse diagram



direction of rotation clockwise (looking at the shaft)