

## Incremental encoder with solid shaft

RB-0010-I24/L2E

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- 1 reference mark  
2 M3 Depth 5 mm



## Product characteristics

|                     |               |
|---------------------|---------------|
| Resolution          | 10 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 und B [°]      | 90     |

## Measuring/setting range

|            |               |
|------------|---------------|
| Resolution | 10 resolution |
|------------|---------------|

## Operating conditions

|                                |           |
|--------------------------------|-----------|
| Ambient temperature [°C]       | -20...70  |
| Storage temperature [°C]       | -30...100 |
| Max. relative air humidity [%] | 98        |
| Protection                     | IP 66     |

## Tests / approvals

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

## Mechanical data

|                 |                 |
|-----------------|-----------------|
| Dimensions [mm] | Ø 36.5 / L = 38 |
| Material        | aluminum        |

# RB6019



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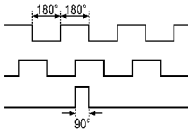
|                                               |                |
|-----------------------------------------------|----------------|
| Max. revolution, mechanical [U/min]           | 10000          |
| Max. starting torque [Nm]                     | 1              |
| Reference temperature torque [°C]             | 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       | error inverted |
| screen      | housing        |

### Diagrams and graphs

|               |                                                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Pulse diagram |  <p>Direction of rotation clockwise (looking at the shaft)</p> |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|