

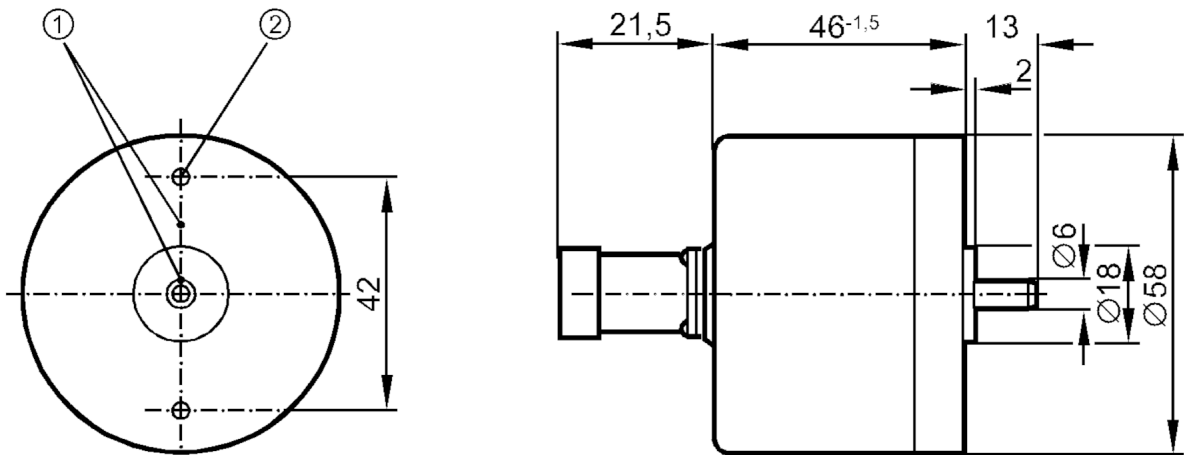
# RC6018



## Incremental encoder with solid shaft

RC-0300-I24/J

Article no longer available - archive entry



- 1 reference mark
- 2 M3 Depth 5 mm



| Product characteristics           |                |
|-----------------------------------|----------------|
| Resolution                        | 300 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                        | 300 resolution |
| Operating conditions              |                |
| Ambient temperature [°C]          | -20...70       |
| Storage temperature [°C]          | -30...100      |
| Max. relative air humidity [%]    | 98             |
| Protection                        | IP 64          |

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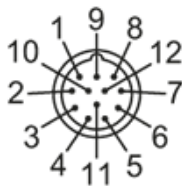


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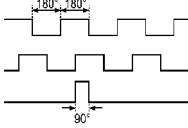
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| Tests / approvals                         |         |                     |
|-------------------------------------------|---------|---------------------|
| Shock resistance                          |         | 100 g (6 ms)        |
| Vibration resistance                      |         | 15 g (55...2000 Hz) |
| Mechanical data                           |         |                     |
| Dimensions                                | [mm]    | Ø 58 / L = 80.5     |
| 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]    | 6                   |
| 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                     |         |                     |

Connector: 1 x M23 (ifm 1001.4), axial



|    |                  |
|----|------------------|
| 1  | B inverted       |
| 2  | n.c.             |
| 3  | 0 index          |
| 4  | 0 index inverted |
| 5  | A                |
| 6  | A inverted       |
| 7  | error inverted   |
| 8  | B                |
| 9  | n.c.             |
| 10 | 0V               |
| 11 | n.c.             |
| 12 | L+               |

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