

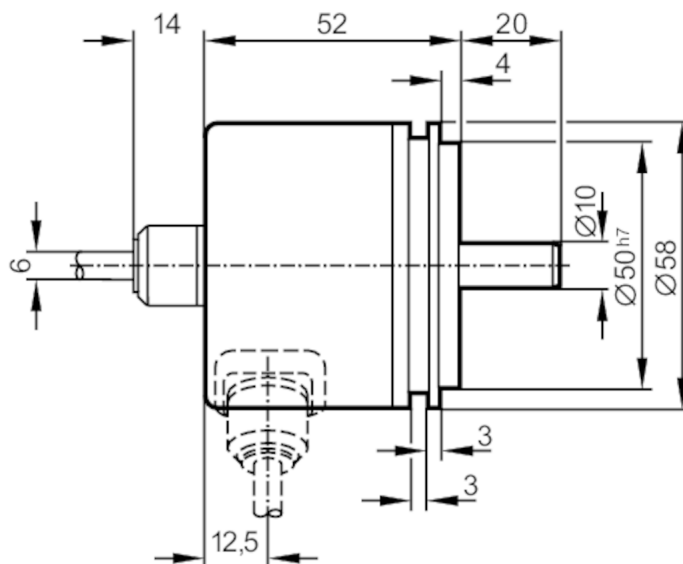
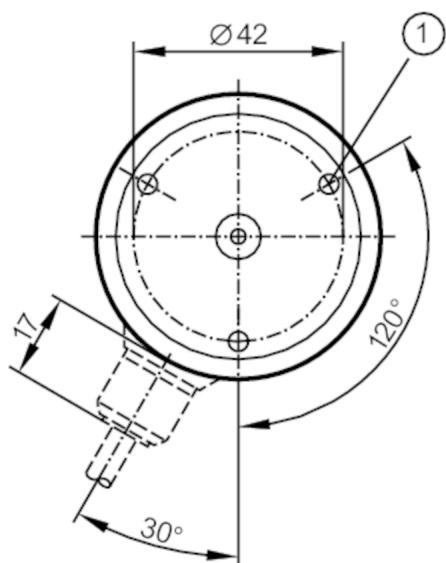
# RN6034



## Absolute singleturn encoder with solid shaft

RN-4096-G24/P1B

Article no longer available - archive entry



1 M4 Depth 5 mm



### Product characteristics

|                         |                                     |
|-------------------------|-------------------------------------|
| Resolution              | 4096 resolution; 4096 steps; 12 bit |
| Communication interface | parallel                            |
| Shaft design            | solid shaft                         |
| Shaft diameter [mm]     | 10                                  |

### Electrical data

|                                    |            |
|------------------------------------|------------|
| Operating voltage [V]              | 10...30 DC |
| Current consumption [mA]           | < 250      |
| Max. revolution electrical [U/min] | 1500       |

### Outputs

|                                   |                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------|
| Electrical design                 | HTL                                                                           |
| Max. current load per output [mA] | 20                                                                            |
| Type of short-circuit protection  | < 60 s                                                                        |
| Code                              | Gray code; (increasing code values when turned clockwise (seen on the shaft)) |

### Measuring/setting range

|            |                                     |
|------------|-------------------------------------|
| Resolution | 4096 resolution; 4096 steps; 12 bit |
|------------|-------------------------------------|

### Interfaces

|                         |          |
|-------------------------|----------|
| Communication interface | parallel |
|-------------------------|----------|

### Operating conditions

|                          |           |
|--------------------------|-----------|
| Ambient temperature [°C] | -20...70  |
| Storage temperature [°C] | -30...100 |



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|                                |       |
|--------------------------------|-------|
| Max. relative air humidity [%] | 98    |
| Protection                     | IP 65 |

### Tests / approvals

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

### Mechanical data

|                                               |                |
|-----------------------------------------------|----------------|
| Dimensions [mm]                               | Ø 58 / L = 52  |
| Materials                                     | aluminium      |
| Max. revolution, mechanical [U/min]           | 10000          |
| 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: 1 m, PUR; Maximum cable length: 100 m; axial

Connector: 1 x (ifm 1001.9); Maximum cable length: 100 m

|        |                              |
|--------|------------------------------|
| 1      | white 0V                     |
| 2      | brown 10...30V               |
| 3      | n.c.                         |
| 4      | n.c.                         |
| 5      | grey bit 3                   |
| 6      | pink bit 4                   |
| 7      | blue bit 5                   |
| 8      | red bit 6                    |
| 9      | black bit 7                  |
| 10     | lilac bit 8                  |
| 11     | grey/pink bit 9              |
| 12     | red/blue bit 10              |
| 13     | white/green bit 11           |
| 14     | brown/green bit 12 (MSB)     |
| 15     | white/yellow 0V sensor       |
| 16     | yellow/brown 10...30V sensor |
| 17     | n.c.                         |
| 18     | grey/brown bit 2             |
| 19     | white/pink bit 1             |
| Screen | housing                      |