

# RU1032

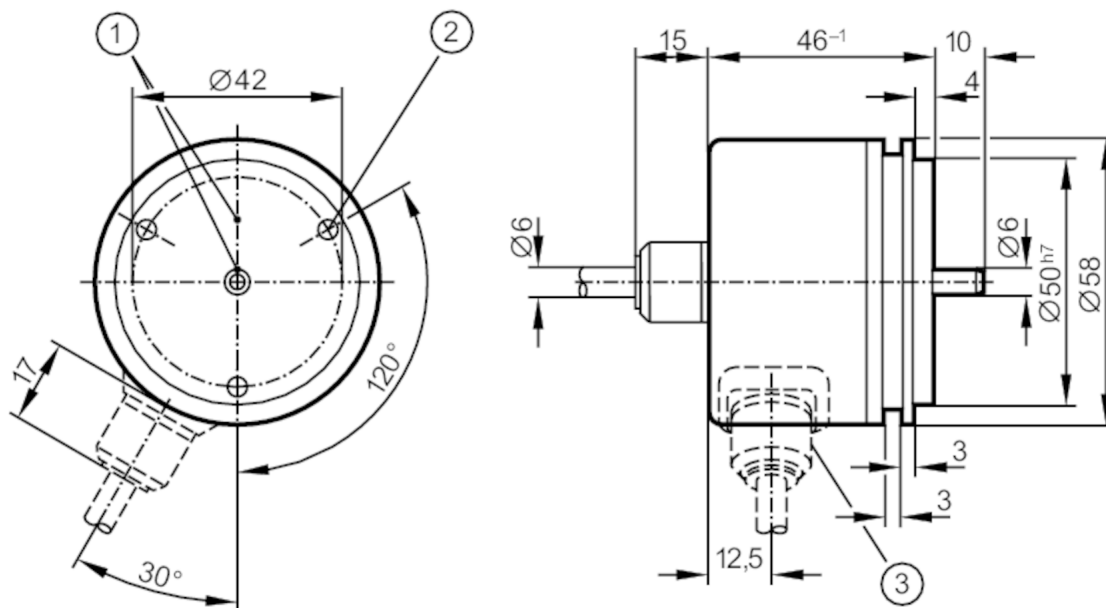
## Incremental encoder with solid shaft

RU-1800-I05/L2



Status Archive

/RUP500 + E12402



- 1 reference mark
- 2 M4 Depth 5 mm



### Application

|                    |             |
|--------------------|-------------|
| Function principle | incremental |
|--------------------|-------------|

### Electrical data

|                             |      |      |
|-----------------------------|------|------|
| Operating voltage tolerance | [%]  | 10   |
| Operating voltage           | [V]  | 5 DC |
| Current consumption         | [mA] | 150  |

### Outputs

|                              |       |     |
|------------------------------|-------|-----|
| Electrical design            |       | TTL |
| Max. current load per output | [mA]  | 20  |
| Switching frequency          | [kHz] | 300 |
| Phase difference A und B     | [°]   | 90  |

### Measuring/setting range

|            |                 |
|------------|-----------------|
| Resolution | 1800 resolution |
|------------|-----------------|

### Operating conditions

|                             |                               |           |
|-----------------------------|-------------------------------|-----------|
| Ambient temperature         | [°C]                          | -30...100 |
| Note on ambient temperature | for firmly laid cable: -30 °C |           |
| Storage temperature         | [°C]                          | -30...100 |
| Max. relative air humidity  | [%]                           | 98        |
| Protection                  | IP 64                         |           |



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| Tests / approvals                             |                  |                      |
|-----------------------------------------------|------------------|----------------------|
| Shock resistance                              |                  | 100 g (6 ms)         |
| Vibration resistance                          |                  | 10 g (55...2000 Hz)  |
| Mechanical data                               |                  |                      |
| Weight                                        | [g]              | 485                  |
| Dimensions                                    | [mm]             | Ø 58 / L = 46        |
| 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]                           |                  | 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                   |
| Fixing flange                                 |                  | synchro-flange       |
| Remarks                                       |                  |                      |
| Notes                                         |                  | discontinued article |
| Electrical connection                         |                  |                      |
| Cable: 2 m, PUR; axial                        |                  |                      |
|                                               |                  |                      |
| 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          |                      |



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### Diagrams and graphs

Pulse diagram



Output A

Output B

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