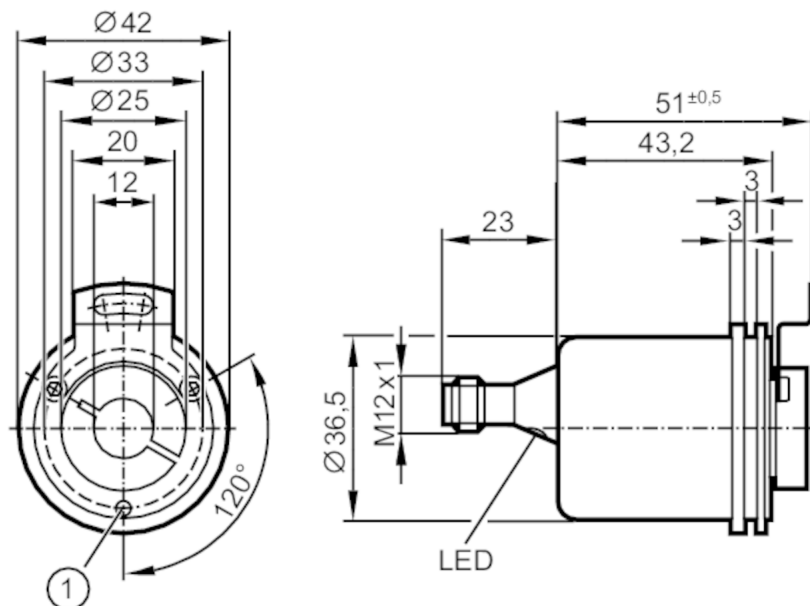


## Absolute multiturn encoder with hollow shaft

RMS0024-C24/UST



1 M3 x 6



### Product characteristics

|                         |                                      |
|-------------------------|--------------------------------------|
| Resolution              | 4096 steps; 4096 revolutions; 24 bit |
| Communication interface | CAN                                  |
| Shaft design            | hollow shaft open to one side        |
| Shaft diameter [mm]     | 12                                   |

### Application

|                    |           |
|--------------------|-----------|
| Function principle | absolute  |
| Revolution type    | multiturn |

### Electrical data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Operating voltage [V]       | 9...30 DC; ("supply class 2" to cULus) |
| Current consumption [mA]    | < 100; ((10 V DC) ; ≤ 50 (24 V DC))    |
| Protection class            | III                                    |
| Reverse polarity protection | yes                                    |

### Outputs

|                          |        |
|--------------------------|--------|
| Short-circuit protection | yes    |
| Code                     | binary |

### Measuring/setting range

|            |                                      |
|------------|--------------------------------------|
| Resolution | 4096 steps; 4096 revolutions; 24 bit |
|------------|--------------------------------------|

### Accuracy / deviations

|              |      |
|--------------|------|
| Accuracy [°] | 0.25 |
|--------------|------|

### Software / programming

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| Parameter setting options | CAN parameter; scaling; preset; Baud rate; direction of rotation; Node ID |
|---------------------------|---------------------------------------------------------------------------|



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| Interfaces                                |                     |                                                     |
|-------------------------------------------|---------------------|-----------------------------------------------------|
| Communication interface                   |                     | CAN                                                 |
| CAN                                       |                     |                                                     |
| Protocol                                  |                     | CANopen                                             |
| Factory settings                          |                     | Baud rate: 250 kBit/s                               |
|                                           |                     | node ID: 5                                          |
| Version                                   |                     | DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0           |
| Operating conditions                      |                     |                                                     |
| Ambient temperature                       | [°C]                | -40...85                                            |
| Max. relative air humidity                | [%]                 | 98                                                  |
| Protection                                |                     | IP 65; (on the housing: IP 65; on the shaft: IP 64) |
| Tests / approvals                         |                     |                                                     |
| Shock resistance                          |                     | < 300 g (6 ms)                                      |
| Vibration resistance                      |                     | 30 g (10...1000 Hz)                                 |
| MTTF                                      | [years]             | 240                                                 |
| Mechanical data                           |                     |                                                     |
| Weight                                    | [g]                 | 228                                                 |
| Dimensions                                | [mm]                | Ø 36.5 / L = 74                                     |
| Materials                                 |                     | flange: aluminium; housing cap: steel powder-coated |
| Max. revolution, mechanical [U/min]       |                     | 6000                                                |
| Max. starting torque [Nm]                 |                     | 3                                                   |
| Reference temperature torque              | [°C]                | 25                                                  |
| Shaft design                              |                     | hollow shaft open to one side                       |
| Shaft diameter                            | [mm]                | 12                                                  |
| Shaft material                            |                     | steel                                               |
| Max. shaft load axial (at the shaft end)  | [N]                 | 40                                                  |
| Max. shaft load radial (at the shaft end) | [N]                 | 110                                                 |
| Fixing flange                             |                     | Ø 36.5 mm                                           |
| Displays / operating elements             |                     |                                                     |
| Display                                   | Preoperational Mode | LED, green                                          |
|                                           | Operational Mode    | LED, green flashing                                 |
|                                           | error message       | LED, red flashing                                   |

# RM8007

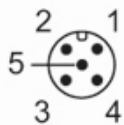


## Absolute multiturn encoder with hollow shaft

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### Electrical connection

Connector: 1 x M12, axial; coding: A



|   |          |
|---|----------|
| 1 | CAN_GND  |
| 2 | VBBc     |
| 3 | GND (PE) |
| 4 | CAN_High |
| 5 | CAN_Low  |