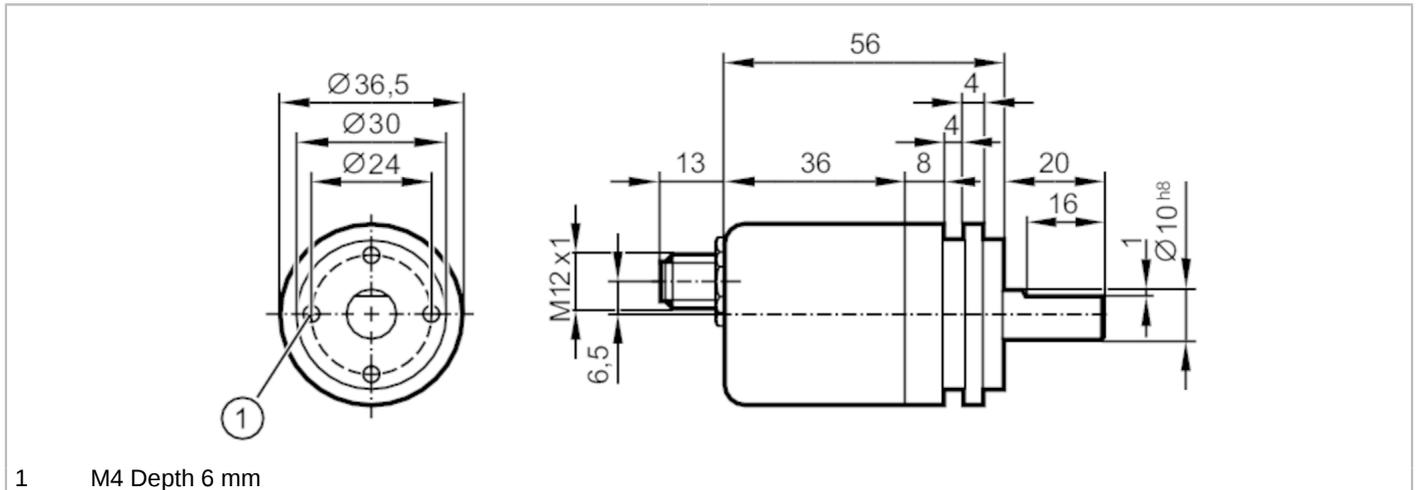


RM9003



Absolute multiturn encoder with solid shaft

RMS0024-C24/UST



| Product characteristics | |
|-----------------------------|---|
| Resolution | 4096 steps; 4096 revolutions; 24 bit |
| Communication interface | CAN |
| Shaft design | solid shaft |
| Shaft diameter [mm] | 10 |
| Application | |
| Function principle | absolute |
| Revolution type | multiturn |
| Electrical data | |
| Operating voltage [V] | 9...30 DC |
| Current consumption [mA] | < 100; ((10 V DC) ; ≤ 50 (24 V DC)) |
| Protection class | III |
| Reverse polarity protection | yes |
| Outputs | |
| Output function | CANopen interface |
| Short-circuit protection | yes |
| Code | binary |
| Measuring/setting range | |
| Resolution | 4096 steps; 4096 revolutions; 24 bit |
| Accuracy / deviations | |
| Accuracy [°] | 0.08 |
| Software / programming | |
| Parameter setting options | CAN parameter; scaling; preset; Baud rate; Direction of rotation; node ID |
| Interfaces | |
| Communication interface | CAN |
| Number of CAN interfaces | 1 |
| CAN | |
| Protocol | CANopen |

RM9003



Absolute multiturn encoder with solid shaft

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| | |
|----------------------|---|
| Factory settings | Baud rate: 125 kBit/s node ID: 32 |
| Version | DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0 |
| Terminating resistor | yes |

Operating conditions

| | |
|--------------------------|---------------|
| Ambient temperature [°C] | -40...85 |
| Protection | IP 68; IP 69K |

Tests / approvals

| | |
|----------------------|---------------------|
| Shock resistance | 200 g (11 ms) |
| Vibration resistance | 30 g (10...1000 Hz) |
| MTTF [years] | 240 |

Mechanical data

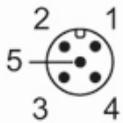
| | |
|---|---|
| Weight [g] | 228.2 |
| Housing | tubular |
| Dimensions [mm] | Ø 36.5 / L = 100 |
| Material | flange: aluminum; housing cap: steel scratch-resistant cathodic dip coating |
| Max. revolution, mechanical [U/min] | 6000 |
| Max. starting torque [Nm] | 0.05 |
| Reference temperature torque [°C] | 20 |
| Shaft design | solid shaft |
| Shaft diameter [mm] | 10 |
| Shaft material | steel (1.4104) |
| Max. shaft load axial (at the shaft end) [N] | 180 |
| Max. shaft load radial (at the shaft end) [N] | 180 |
| Fixing flange | Synchro-flange |

Remarks

| | |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

Connector: 1 x M12, axial; coding: A



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