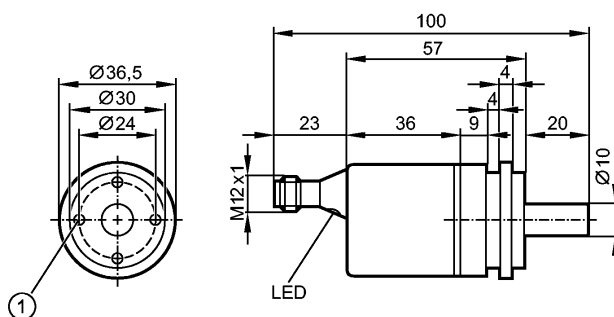
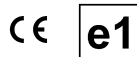


**RM9000**

RMS0024-C24/US

**Encoders**


1: M4 6 mm deep


**Product characteristics**

Multiturn

CANopen interface

Connector

Synchro-flange

4096 steps

4096 revolutions

**Electrical data**

|                             |      |                                  |
|-----------------------------|------|----------------------------------|
| Operating voltage           | [V]  | 10...30 DC                       |
| Current consumption         | [mA] | ≤ 100 (10 V DC) ; ≤ 50 (24 V DC) |
| Code                        |      | binary                           |
| Reverse polarity protection |      | yes                              |
| Short-circuit protection    |      | yes                              |
| Protection class            |      | III                              |

**Outputs**

|                 |                   |
|-----------------|-------------------|
| Output function | CANopen interface |
|-----------------|-------------------|

**Measuring / setting range**

|            |         |
|------------|---------|
| Resolution | 24 bits |
|------------|---------|

**Accuracy / deviations**

|          |         |
|----------|---------|
| Accuracy | ± 0.25° |
|----------|---------|

**Interfaces**

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Programming interface | CANopen                                                                                                 |
| Profiles              | DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0                                                               |
| Programming options   | CAN parameters, scaling, preset, baud rate (default 125 k), direction of rotation, node ID (default 32) |

**Mechanical data**

|                                        |                                                                              |
|----------------------------------------|------------------------------------------------------------------------------|
| Max. permissible rpm / mech. [1/min]   | 6000                                                                         |
| Starting torque [Ncm]                  | < 1.5 (20 °C)                                                                |
| Max. shaft load (at the shaft end) [N] | axial 40; radial 60                                                          |
| Shaft, material [mm]                   | Ø 10, steel (1.4104)                                                         |
| Vibration resistance                   | 20 g (55...2000 Hz)                                                          |
| Shock resistance                       | 120 g (6 ms)                                                                 |
| Housing materials                      | flange: aluminium; housing cap: steel scratch-resistant cathodic dip coating |
| Weight [kg]                            | 0.248                                                                        |

**Environment**

**RM9000**

RMS0024-C24/US

**Encoders**

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -40...85 |
|---------------------|------|----------|

|            |                                |
|------------|--------------------------------|
| Protection | IP 65 / IP 67 / IP 68 / IP 69K |
|------------|--------------------------------|

**Tests / approvals**

|      |         |     |
|------|---------|-----|
| MTTF | [Years] | 214 |
|------|---------|-----|

**Displays / operating elements**

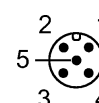
|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| Diagnostic display LED | Lights green: preoperational mode<br>Flashes green: operational mode<br>Flashes red: error message |
|------------------------|----------------------------------------------------------------------------------------------------|

**Electrical connection**

|            |                              |
|------------|------------------------------|
| Connection | M12 connector; axial; 5-pole |
|------------|------------------------------|

**Wiring**

1: CAN\_GND  
2: VBBc  
3: GND (PE)  
4: CAN\_High  
5: CAN\_Low


**Remarks**

|               |         |   |
|---------------|---------|---|
| Pack quantity | [piece] | 1 |
|---------------|---------|---|