

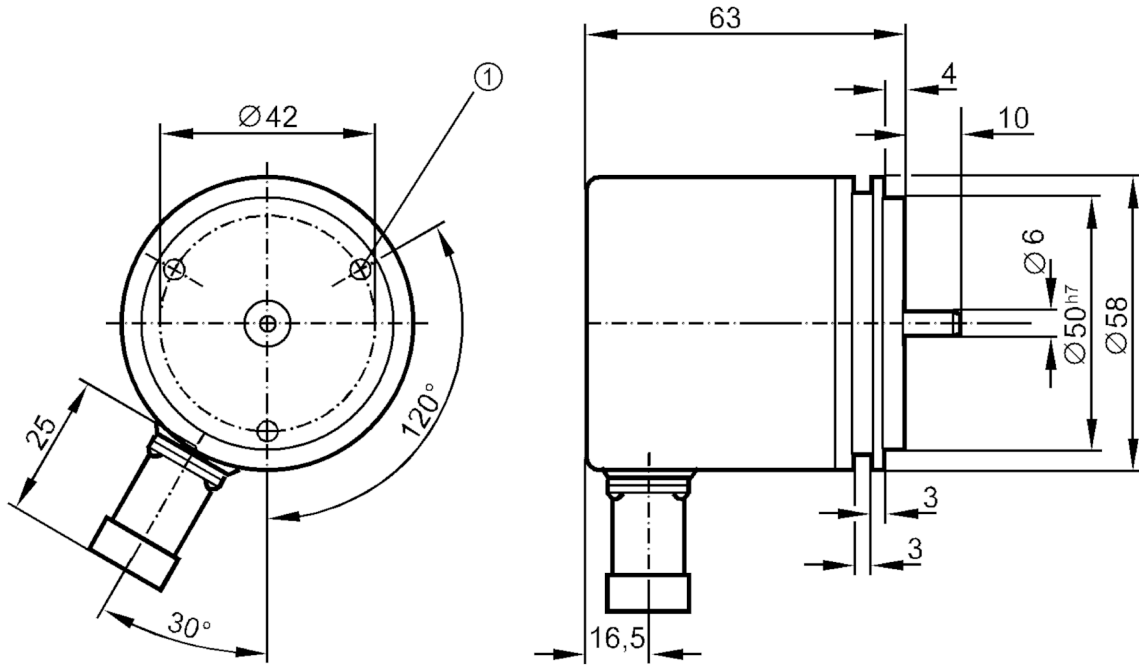
# RM6112



## Absolute multiturn encoder with solid shaft

RM-4096-S24/B A

Article no longer available - archive entry



1 M4 Depth 6 mm



## Product characteristics

|                         |                                      |
|-------------------------|--------------------------------------|
| Resolution              | 4096 steps; 4096 revolutions; 24 bit |
| Communication interface | SSI data interface                   |
| Shaft design            | solid shaft                          |
| Shaft diameter [mm]     | 6                                    |

## Electrical data

|                            |         |            |
|----------------------------|---------|------------|
| Operating voltage          | [V]     | 10...30 DC |
| Current consumption        | [mA]    | < 200      |
| Max. revolution electrical | [U/min] | 6000       |

## Outputs

|             |                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code        | Gray code; (increasing code values when turned clockwise (seen on the shaft))                                                                                        |
| Code signal | data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485;<br>data output; synchronous serial; TTL-compatible signals, data, and data (inv.) |

### Measuring/setting range

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

## Interfaces

|                         |                    |
|-------------------------|--------------------|
| Communication interface | SSI data interface |
|-------------------------|--------------------|

## Operating conditions

|                     |      |           |
|---------------------|------|-----------|
| Ambient temperature | [°C] | -20...85  |
| Storage temperature | [°C] | -30...100 |
| Protection          |      | IP 64     |

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RM-4096-S24/B A

### Tests / approvals

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

### Mechanical data

|                                               |                |
|-----------------------------------------------|----------------|
| 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]                           | 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             |

### Remarks

|         |                                                   |
|---------|---------------------------------------------------|
| Remarks | Wires/pins not connected (n.c.) must not be used. |
|---------|---------------------------------------------------|

### Electrical connection

Connector: 1 x, radial; Maximum cable length: 100 m

|    |                |
|----|----------------|
| 1  | 0V Un          |
| 2  | data           |
| 3  | clock          |
| 4  | n.c.           |
| 5  | n.c.           |
| 6  | n.c.           |
| 7  | n.c.           |
| 8  | + Ub           |
| 9  | n.c.           |
| 10 | data inverted  |
| 11 | clock inverted |
| 12 | n.c.           |

### Diagrams and graphs

|               |                          |
|---------------|--------------------------|
| Pulse diagram | <p>clock</p> <p>data</p> |
|---------------|--------------------------|