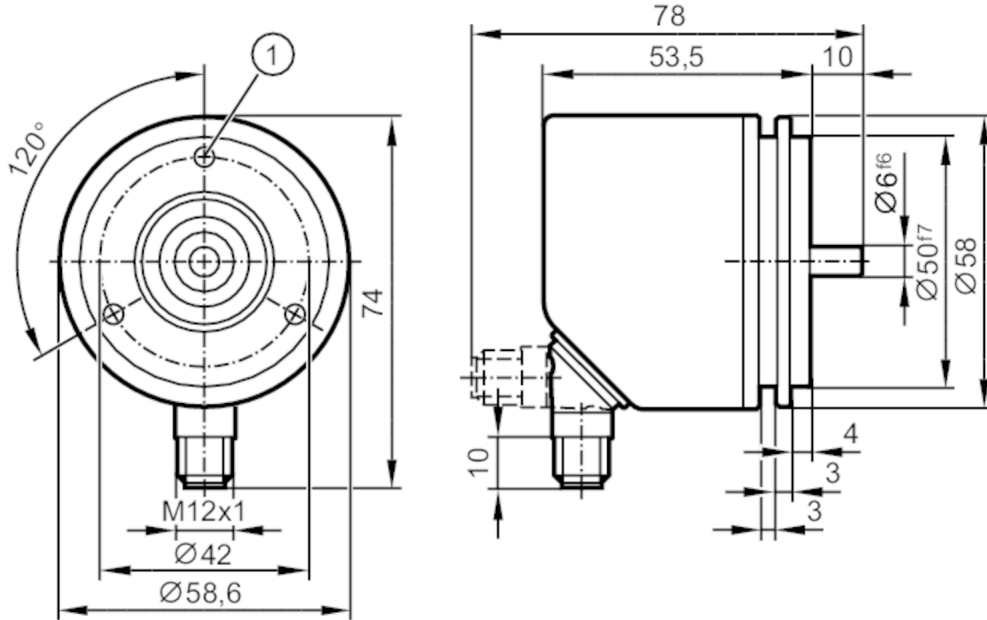


# RMU100



### Analogue 13 bit multiturn encoder with 4-20 mA output

RMU06SVU513--bANI



1 M4 x 0.7 Depth 6 mm

## Product characteristics

|                     |                                    |
|---------------------|------------------------------------|
| Resolution          | 8192 steps; 16 revolutions; 17 bit |
| Shaft design        | solid shaft                        |
| Shaft diameter [mm] | 6                                  |

## Application

|                    |          |
|--------------------|----------|
| Function principle | absolute |
| Detection system   | magnetic |

## Electrical data

|                             |         |           |
|-----------------------------|---------|-----------|
| Operating voltage           | [V]     | 8...30 DC |
| Current consumption         | [mA]    | < 150     |
| Protection class            |         | III       |
| Reverse polarity protection |         | yes       |
| Max. power-on delay time    | [ms]    | 500       |
| Settling time               | [ms]    | 32        |
| Max. revolution electrical  | [U/min] | 12000     |

## Inputs / outputs

|                              |                               |
|------------------------------|-------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 |
|------------------------------|-------------------------------|

## Outputs

|                              |           |
|------------------------------|-----------|
| Number of analogue outputs   | 1         |
| Analogue current output [mA] | 4...20    |
| Max. load [Ω]                | 500       |
| Factory setting              | 16 x 360° |
| Short-circuit protection     | yes       |

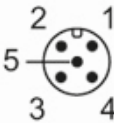
### Measuring/setting range

|            |                                    |
|------------|------------------------------------|
| Resolution | 8192 steps; 16 revolutions; 17 bit |
|------------|------------------------------------|



## Analogue 13 bit multiturn encoder with 4-20 mA output

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| Accuracy / deviations                                                                                                                      |                                                          |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------|
| Accuracy                                                                                                                                   | 20 mA ± 20 µA; (accuracy INL: ± 0.1 °)                   |                                    |
| Linearity deviation                                                                                                                        | ± 0,15 % FSO                                             |                                    |
| Software / programming                                                                                                                     |                                                          |                                    |
| Parameter setting options                                                                                                                  | start position; end position; (maximum 65536 x 360°)     |                                    |
| Operating conditions                                                                                                                       |                                                          |                                    |
| Ambient temperature                                                                                                                        | [°C]                                                     | -40...85                           |
| Storage temperature                                                                                                                        | [°C]                                                     | -40...85                           |
| Max. relative air humidity                                                                                                                 | [%]                                                      | 95; (condensation not permissible) |
| Protection                                                                                                                                 | IP 65; (on the housing: IP67)                            |                                    |
| Tests / approvals                                                                                                                          |                                                          |                                    |
| Shock resistance                                                                                                                           | EN 60068-2-27                                            | 100 g half-sine / 6 ms             |
| Vibration resistance                                                                                                                       | EN 60068-2-29                                            | 10 g half-sine / 16 ms             |
| MTTF                                                                                                                                       | [years]                                                  | 241                                |
| Mechanical data                                                                                                                            |                                                          |                                    |
| Weight                                                                                                                                     | [g]                                                      | 347.6                              |
| Dimensions                                                                                                                                 | [mm]                                                     | Ø 58.6 / L = 63.5                  |
| Materials                                                                                                                                  | flange: aluminium; housing: stainless steel (444/1.4521) |                                    |
| 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                                                                                                                             | stainless steel                                          |                                    |
| Max. shaft load axial (at the shaft end)                                                                                                   | [N]                                                      | 40                                 |
| Max. shaft load radial (at the shaft end)                                                                                                  | [N]                                                      | 60                                 |
| Fixing flange                                                                                                                              | synchro-flange                                           |                                    |
| Electrical connection - plug                                                                                                               |                                                          |                                    |
| Connector: 1 x M12, radial, can also be used axially; coding: A; Moulded body: stainless steel (316 / 1.4401); Maximum cable length: 100 m |                                                          |                                    |
| <div></div>                                             |                                                          |                                    |
| 1                                                                                                                                          | L+                                                       |                                    |
| 2                                                                                                                                          | OUT                                                      |                                    |
| 3                                                                                                                                          | L-                                                       |                                    |
| 4                                                                                                                                          | Set 2                                                    |                                    |
| 5                                                                                                                                          | Set 1                                                    |                                    |
|                                                                                                                                            | Screen plug                                              |                                    |