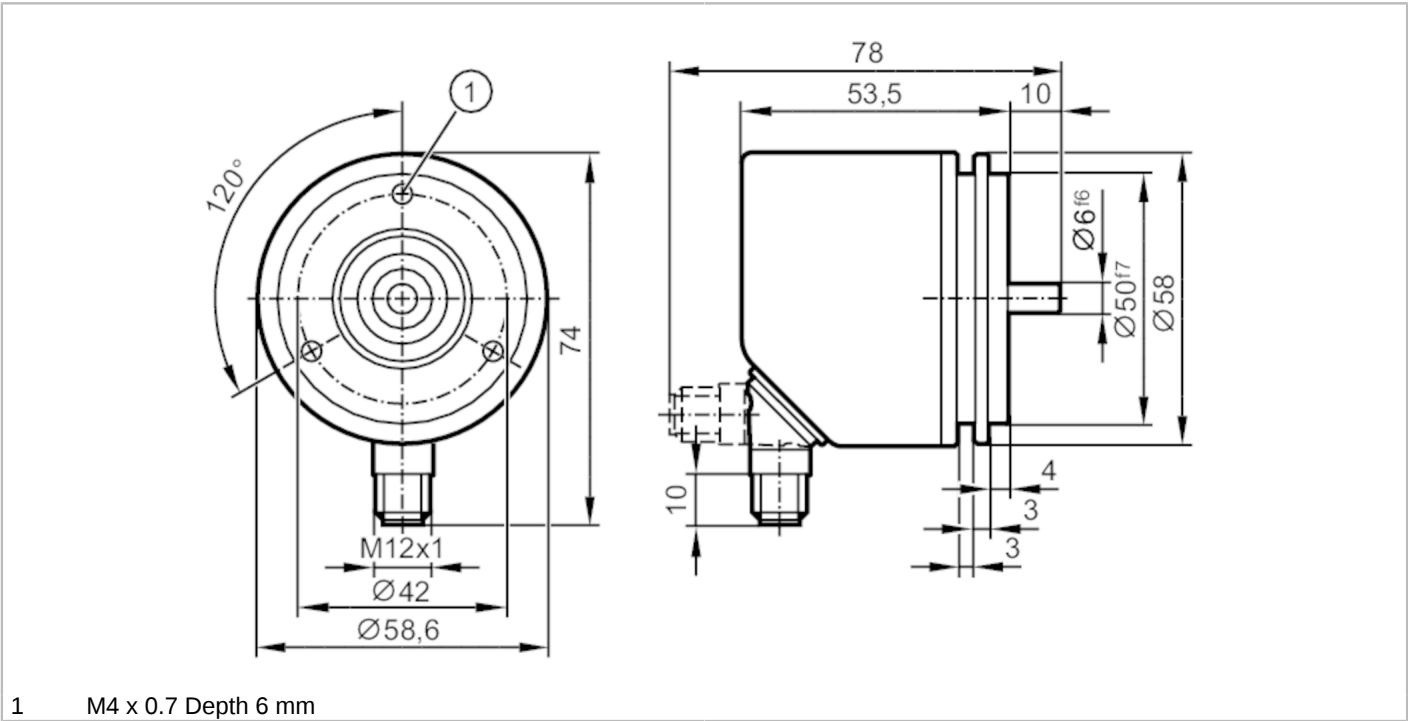


# RMU100



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

RMU06SVU513--bANI



| 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 analog outputs: 1        |
| Outputs                            |                                    |
| Number of analog outputs           | 1                                  |
| Analog current output [mA]         | 4...20                             |
| Max. load [ $\Omega$ ]             | 500                                |
| Factory setting                    | 16 x 360°                          |
| Short-circuit protection           | yes                                |
| Measuring/setting range            |                                    |
| Resolution                         | 8192 steps; 16 revolutions; 17 bit |

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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                              |
| Housing                                   | tubular                                                   |                                    |
| Dimensions                                | [mm]                                                      | Ø 58.6 / L = 63.5                  |
| Material                                  | flange: aluminum; housing: stainless steel (1.4521 / 444) |                                    |
| Max. revolution, mechanical [U/min]       | 12000                                                     |                                    |
| Max. starting torque                      | [Nm]                                                      | 0.01                               |
| 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                                            |                                    |
| Remarks                                   |                                                           |                                    |
| Pack quantity                             | 1 pcs.                                                    |                                    |

# RMU100

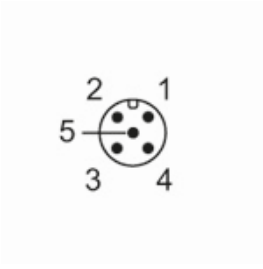


## Analog 13 bit multiturn encoder with 4-20 mA output

RMU06SVU513--bANI

### Electrical connection - plug

Connector: 1 x M12, radial, can also be used axially; coding: A; Moulded body: stainless steel (1.4401 / 316); Maximum cable length: 100 m



|   |             |
|---|-------------|
| 1 | L+          |
| 2 | OUT         |
| 3 | L-          |
| 4 | Set 2       |
| 5 | Set 1       |
|   | screen plug |