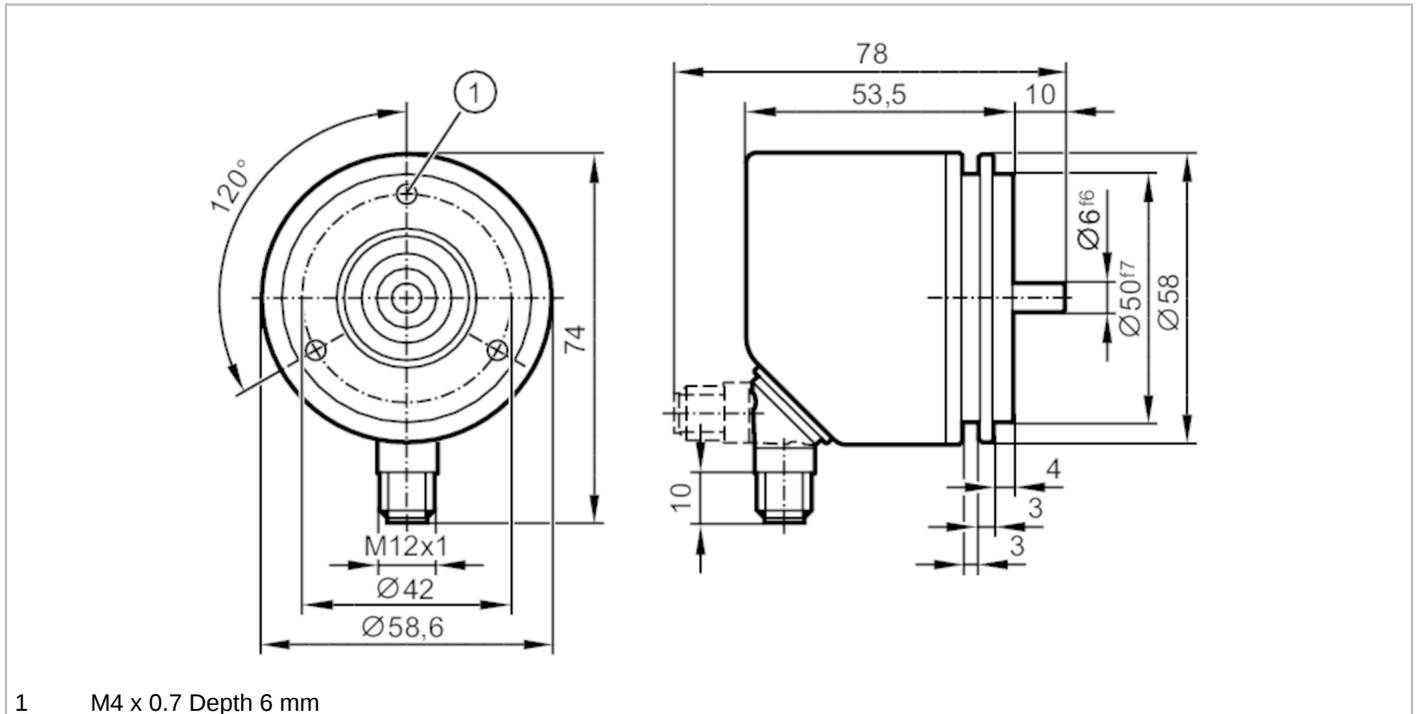


RMU400



Absolute multiturn encoder as 24 bit version

RMU06SVU81212bSSI



| Product characteristics | |
|------------------------------------|---|
| Resolution | 4096 steps; 4096 revolutions |
| Communication interface | SSI data interface |
| Shaft design | solid shaft |
| Shaft diameter [mm] | 6 |
| Application | |
| Function principle | absolute |
| Detection system | magnetic |
| Electrical data | |
| Operating voltage [V] | 4.5...30 DC |
| Protection class | III |
| Reverse polarity protection | yes |
| Max. power-on delay time [ms] | 500 |
| Settling time [ms] | 32 |
| Max. revolution electrical [U/min] | 12000 |
| Outputs | |
| Short-circuit protection | yes |
| Code | Gray code; (increasing code values when turned clockwise (seen on the shaft)) |
| Code signal | Clock input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 422; data output; synchronous serial; TTL-compatible signal data and data (inv.) |
| Measuring/setting range | |
| Resolution | 4096 steps; 4096 revolutions |
| Accuracy / deviations | |
| Accuracy | ±0.1 INL |

RMU400



Absolute multiturn encoder as 24 bit version

RMU06SVU81212bSSI

| Software / programming | | |
|---|---|------------------------------------|
| Parameter setting options | Zero point; Direction of rotation | |
| Interfaces | | |
| Communication interface | SSI data interface | |
| 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] | 350 |
| Mechanical data | | |
| Weight | [g] | 348.1 |
| Dimensions | [mm] | Ø 58 / L = 63.5 |
| Material | flange: aluminum; housing: stainless steel (1.4521 / 444) | |
| 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 | |

RMU400

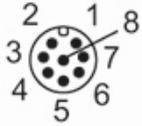


Absolute multiturn encoder as 24 bit version

RMU06SVU81212bSSI

Electrical connection - plug

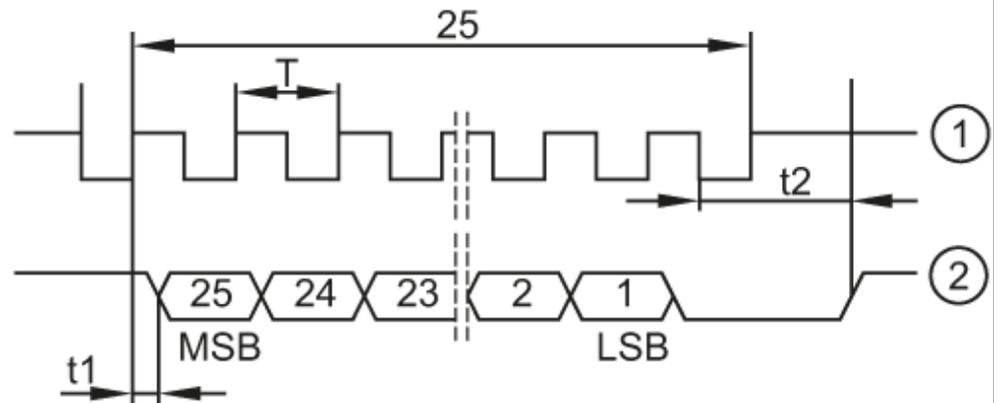
Connector: 1 x M12, radial, can also be used axially; coding: A; Moulded body: stainless steel (1.4401 / 316); Maximum cable length: 100 m



| | |
|---|--|
| 1 | L+ |
| 2 | clock |
| 3 | L- |
| 4 | clock (inv.) |
| 5 | data |
| 6 | data (inv.) |
| 7 | reset to zero |
| 8 | reversal of direction of rotation screen plug |

Diagrams and graphs

Pulse diagram



- 1 clock
- 2 data