

RMV300



Absolute multiturn encoder with solid shaft

MULTITURN ENCODER STANDARD LINE

| Software / programming | | |
|--------------------------------|--|-------------------------------|
| Parameter setting options | preset; zero point; direction of rotation; rotational speed | |
| Interfaces | | |
| Communication interface | IO-Link | |
| Transmission type | COM3 (230,4 kBaud) | |
| IO-Link revision | 1.1 | |
| SDCI standard | IEC 61131-9 CDV | |
| Profiles | Identification and Diagnosis; Switching Signal Channel; Measurement Data Channel (high resolution) | |
| SIO mode | no | |
| Required master port type | A | |
| Min. process cycle time [ms] | 2.3 | |
| IO-Link functions (cyclical) | function | bit length |
| | process value | 96 |
| | device status | 4 |
| | binary switching information | 5 |
| IO-Link functions (acyclical) | application specific tag; operating hours counter; internal temperature; switching cycles counter | |
| Supported DeviceIDs | Type of operation | IO-Link device ID |
| | Default | 1064 d / 0x000428 h |
| Note | For further information please see the IODD PDF file at "Downloads" | |
| Operating conditions | | |
| Ambient temperature [°C] | -40...85 | |
| Storage temperature [°C] | -40...85 | |
| Max. relative air humidity [%] | 98; (condensation not permissible) | |
| Protection | IP 65; (on the housing: IP67; on the shaft: IP65) | |
| Tests / approvals | | |
| EMC | DIN EN 61000-4-2 ESD | 4 kV CD |
| | DIN EN 61000-4-3 HF radiated | 10 V/m |
| | DIN EN 61000-4-4 Burst | 2 kV |
| | DIN EN 61000-4-6 HF conducted | 10 V |
| Vibration resistance | DIN EN 60068-2-6 | 10 g / 10...1000 Hz half-sine |
| Shock resistance | DIN EN 60068-2-27 | 100 g / 6 ms |
| Continuous shock resistance | DIN EN 60068-2-29 | 10 g / 16 ms half-sine |
| Vibration resistance | | 30 g (10...1000 Hz) |
| MTTF [years] | 283 | |

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| Mechanical data | |
|---|--|
| Weight [g] | 370.9 |
| Dimensions [mm] | Ø 58 / L = 79 |
| Materials | flange: aluminium; housing: stainless steel (1.4521 / 444); plug: stainless steel (1.4401 / 316) |
| Max. starting torque [Nm] | 1 |
| Reference temperature torque [°C] | 20 |
| Shaft design | solid shaft |
| Shaft diameter [mm] | 10 |
| Shaft material | stainless steel |
| Max. shaft load axial (at the shaft end) [N] | 40 |
| Max. shaft load radial (at the shaft end) [N] | 110 |
| Fixing flange | clamping flange |

| Electrical connection - plug | |
|------------------------------|-------------|
| 1 | UB |
| 2 | SSC1.2 / IN |
| 3 | GND |
| 4 | IO-Link |
| 5 | n. c. |

Connector: 1 x M12

