RO1337

Incremental encoder with hollow shaft

RO-2048-I05/N11



Article no longer available - archive entry 54,4±0.5 43 98 98 98



| Product characteristics | | |
|------------------------------|-------|---|
| Resolution | | 2048 resolution |
| Shaft design | | continuous hollow shaft |
| Shaft diameter | [mm] | 10 |
| Electrical data | | |
| Operating voltage tolerance | [%] | 10 |
| Operating voltage | [V] | 5 DC |
| Current consumption | [mA] | < 150 |
| Outputs | | |
| Electrical design | | TTL |
| Max. current load per output | [mA] | 20 |
| Switching frequency | [kHz] | 300 |
| Phase difference A and B | [°] | 90 |
| Measuring/setting range | | |
| Resolution | | 2048 resolution |
| Operating conditions | | |
| Ambient temperature | [°C] | -30100 |
| Max. relative air humidity | [%] | 98 |
| Protection | | IP 64; (on the housing: IP 66; on the shaft: IP 64) |
| Tests / approvals | | |
| Shock resistance | | 200 g |
| Vibration resistance | | 30 g |
| Mechanical data | | |
| Weight | [g] | 460 |

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Incremental encoder with hollow shaft



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| Dimensions | [mm] | Ø 58 / L = 54.4 |
|-------------------------------------|------|---|
| Materials | | aluminium |
| Max. revolution, mechanical [U/min] | | 12000; (when using both shaft clamping rings) |
| Max. starting torque | [Nm] | 2.5 |
| Reference temperature torque | [°C] | 20 |
| Shaft design | | continuous hollow shaft |
| Shaft diameter | [mm] | 10 |
| Shaft fit | | H7 |
| Shaft material | | stainless steel |
| Installation depth of shaft | [mm] | 10 |
| Max. axial shaft misalignment | [mm] | 1; (max. radial shaft alignment: ± 0,05 mm) |

Electrical connection

Cable: 1 m, PUR; radial, can also be used axially

brown A

green A inverted

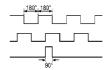
grey B

pink B inverted red 0 index

black 0 index inverted blue L+ sensor white 0V sensor brown/green L+ (Up) white/green 0V (Un) lilac failure inverted screen housing

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)