



Incremental encoders DDS36

DDS36E-BBCS00100



Model Name > **DDS36E-BBCS00100**
Part No. > **1038540**



Illustration may differ

At a glance

- Compact diameter of 36 mm
- Choice of various electric interfaces: TTL/RS-422, HTL/push pull and open collector NPN
- Designs with blind hollow shaft or face mount flange with solid shaft
- Connection with axial cable outlet
- Line counts from 100 up to 2,500
- Working temperature range: -10 °C ... +70 °C
- Enclosure rating: IP65

Your benefits

- Compact design easily fits in applications with limited installation space
- Extensive incremental encoders product portfolio means users can select the right solution for their requirements
- Excellent price-performance ratio with a rugged IP 65 enclosure rating



Performance

| | |
|---------------------------|------------------------|
| Error limits: | ± 0.27 ° |
| Measuring step deviation: | ± 0.09 ° ¹⁾ |
| Measuring step: | 0.9 ° ²⁾ |
| Pulses per revolution: | 100 |

¹⁾ Measuring step x 0.1 ²⁾ 360°/(number of lines x 4)

Mechanical data

| | |
|---|--|
| Mechanical interface: | Blind hollow shaft |
| Shaft diameter: | 8 mm |
| Mass: | 130 g |
| Start up torque: | 1 Ncm (20 °C) |
| Operating torque: | 0.8 Ncm (20 °C) |
| Permissible movement axial static/dynamic: | ± 0.5 mm, ± 0.2 mm |
| Permissible movement radial static/dynamic: | ± 0.3 mm, ± 0.1 mm |
| Maximum operating speed: | 6,000 U/min ¹⁾ |
| Moment of inertia of the rotor: | 1.5 kg/mm ² |
| Bearing lifetime: | 2 x 10 ⁹ revolutions |
| Max. angular acceleration: | 5 x 10 ⁵ rad/s ² |

1) Self-warming 3.3 K per 1,000 1/min

Electrical data

| | |
|--|--|
| Electrical interface: | 7 V ... 24 V, TTL/RS422, Cable, axial, 3 m |
| Connection type: | Cable, axial, 3 m |
| Operating power consumption (no load): | 100 mA |
| Supply voltage: | 7 V ... 24 V |
| Output current: | 20 mA |
| Maximum output frequency: | 300 kHz |
| Reference signal, number: | 1 |
| Reference signal, position: | 90 °, electronically, gated with A and B |

Ambient data

| | |
|----------------------------|--------------------------------------|
| EMC: | EN 61000-6-2, EN 61000-6-4 |
| Air humidity: | 90 % ¹⁾ |
| Working temperature range: | -10 °C ... 70 °C |
| Storage temperature range: | -25 °C ... 85 °C, without package |
| Resistance to shocks: | 100 g, 6 ms (EN 60068-2-27) |
| Resistance to vibration: | 5 g, 10 Hz ... 200 Hz (EN 60068-2-6) |
| Enclosure rating: | IP 65 |

1) Condensation of the optical scanning not permitted

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