

# REI-E-112IA0T-2B2500-C

## Incremental Encoder

### Efficiency Line



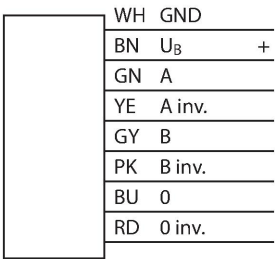
#### Technical data

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Type                                   | REI-E-112IA0T-2B2500-C                  |
| ID                                     | 100012028                               |
| Measuring principle                    | Optical                                 |
| General data                           |                                         |
| Max. rotational speed                  | 4500 rpm                                |
| Moment of inertia of the rotor         | 0.2 × 10 <sup>-6</sup> kgm <sup>2</sup> |
| Starting torque                        | < 0.05 Nm                               |
| Output type                            | Incremental                             |
| Resolution incremental                 | 2500 ppr                                |
| Electrical data                        |                                         |
| Operating voltage U <sub>B</sub>       | 10...30 VDC                             |
| No-load current                        | ≤ 100 mA                                |
| Output current                         | ≤ 30 mA                                 |
| Short-circuit protection               | yes                                     |
| Wire break/reverse polarity protection | yes                                     |
| Pulse frequency max.                   | 300 kHz                                 |
| Signal level high                      | min. U <sub>B</sub> - 1 V               |
| Signal level low                       | max. 0.5 V                              |
| Output function                        | Push-Pull/HTL, invertable               |
| Mechanical data                        |                                         |
| Flange type                            | Flange with mounting element            |
| Flange diameter                        | Ø 40 mm                                 |
| Shaft Type                             | Blind hole shaft                        |
| Shaft diameter D (mm)                  | 6.35                                    |
| Shaft Length L [mm]                    | 18                                      |
| Shaft material                         | Stainless steel                         |

#### Features

- Flange with mounting element, Ø 40 mm
- Blind hole hollow shaft, Ø 6.35mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- -20...+70 °C
- Max. 4500 rpm
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- Cable connection
- 2500 pulses per revolution

#### Wiring diagram



## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Housing material                    | Aluminium                           |
| Electrical connection               | Cable                               |
|                                     | radial                              |
| cable length                        | 2 m                                 |
| Axial shaft load                    | 20 N                                |
| Radial shaft load                   | 40 N                                |
| Environmental conditions            |                                     |
| Ambient temperature                 | -20...+70 °C                        |
| Vibration resistance (EN 60068-2-6) | 100 m/s <sup>2</sup> , 55...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 1000 m/s <sup>2</sup> , 6 ms        |
| Protection class                    | IP64                                |
| Protection class shaft              | IP64                                |