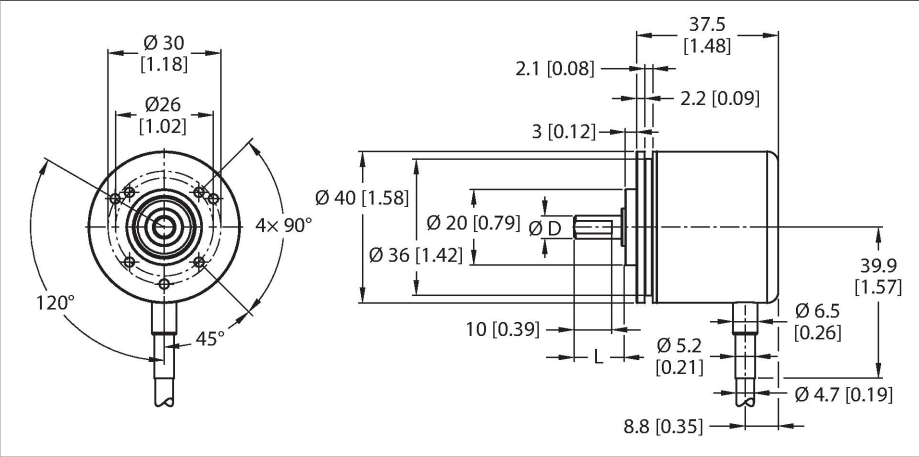


# REI-E-111T8C-2B1024-C

## Incremental Encoder

### Efficiency Line



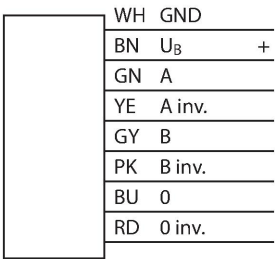
#### Technical data

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Type                                   | REI-E-111T8C-2B1024-C                   |
| ID                                     | 100011958                               |
| 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                 | 1024 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                            | Synchro/clamping flange                 |
| Flange diameter                        | Ø 40 mm                                 |
| Shaft Type                             | Solid shaft                             |
| Shaft diameter D (mm)                  | 8                                       |
| Shaft Length L [mm]                    | 12.5                                    |
| Shaft material                         | Stainless steel                         |

#### Features

- Synchro/clamping flange, Ø 40 mm
- Solid shaft, Ø 8 mm × 12.5 mm
- 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
- 1024 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/s², 55...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 1000 m/s², 6 ms        |
| Protection class                    | IP64                   |
| Protection class shaft              | IP64                   |

Accessories

RA-BC-20-06-08

100048778

2 mm  
1.5 Nm

Belbows coupling with aluminum hub  
Ø 20 mm; d1 = 6 mm, d2 = 8 mm

RA-BC-20-08-08

100048780

2 mm  
1.5 Nm

Belbows coupling with aluminum hub  
Ø 20 mm; d1 = 8 mm, d2 = 8 mm

RA-BC-20-08-10

100048781

2 mm  
1.5 Nm

Belbows coupling with aluminum hub  
Ø 20 mm; d1 = 8 mm, d2 = 10 mm

RA-BC-20-08-12

100049106

2 mm  
1.5 Nm

Belbows coupling with aluminum hub  
Ø 20 mm; d1 = 8 mm, d2 = 12 mm