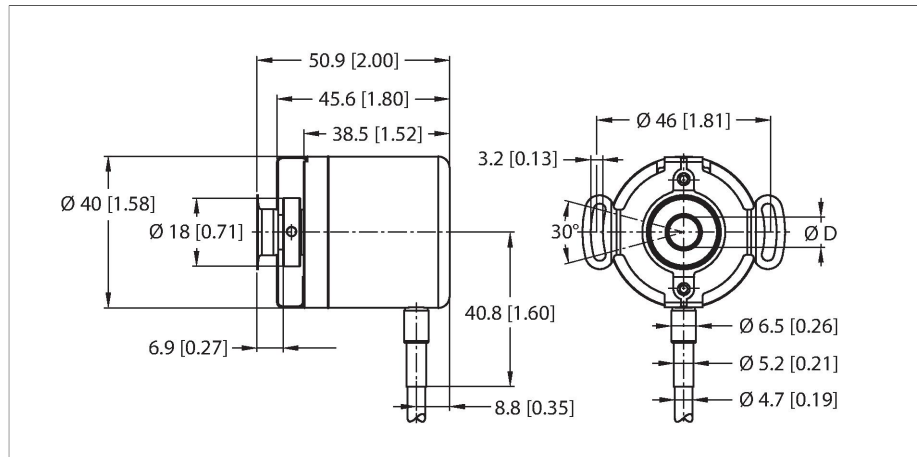


# REI-E-112IA0E-2B360-C

## Incremental Encoder

### Efficiency Line



## Features

- Flange with stator coupling, Ø 46 mm
- Blind hole hollow shaft, Ø 6.35 mm (plug-in depth max. 18 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
- 360 pulses per revolution

## Technical data

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| Type                                      | REI-E-112IA0E-2B360-C              |
| ID                                        | 100012068                          |
| Measuring principle                       | Optical                            |
| <b>General data</b>                       |                                    |
| Max. Rotational Speed                     | 4500 rpm                           |
| Moment of inertia of the rotor            | $0.2 \times 10^{-5} \text{ kgm}^2$ |
| Starting torque                           | < 0.05 Nm                          |
| Output type                               | Incremental                        |
| Resolution, incremental                   | 360 ppr                            |
| <b>Electrical data</b>                    |                                    |
| Operating voltage                         | 10...30 VDC                        |
| No-load current                           | 100 mA                             |
| Output current                            | ≤ 30 mA                            |
| Short-circuit protection                  | yes                                |
| Wire breakage/Reverse polarity protection | yes                                |
| Pulse frequency max.                      | 300 kHz                            |
| Signal level high                         | min. $U_B - 1 \text{ V}$           |
| Signal level low                          | max. 0.5 V                         |
| Output function                           | Push-Pull/HTL, invertable          |
| <b>Mechanical data</b>                    |                                    |
| Design                                    | Hollow shaft                       |
| Flange type                               | Flange with stator coupling        |
| Flange diameter                           | Ø 46 mm                            |
| Shaft Type                                | Hollow shaft                       |
| Shaft diameter D [mm]                     | 6.35                               |

## Wiring diagram

|    |          |
|----|----------|
| WH | GND      |
| BN | $U_B$ +  |
| GN | A        |
| YE | A inv.   |
| GY | B        |
| PK | B inv.   |
| BU | 0 -      |
| RD | 0 inv. - |

## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Shaft Length L [mm]                 | 18                                  |
| Shaft material                      | Stainless steel                     |
| 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                                |