

REI-12H8E-2B4096-H1181  
Incremental Encoder  
Industrial Line



Technical data

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| Type                                   | REI-12H8E-2B4096-H1181                |
| ID                                     | 100010463                             |
| Measuring principle                    | Optical                               |
| General data                           |                                       |
| Max. Rotational Speed                  | 6000 rpm                              |
| Moment of inertia of the rotor         | 6 × 10 <sup>-6</sup> kgm <sup>2</sup> |
| Starting torque                        | < 0.05 Nm                             |
| Output type                            | Incremental                           |
| Resolution incremental                 | 4096 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 stator coupling           |
| Flange diameter                        | Ø 63 mm                               |
| Shaft Type                             | Blind hole shaft                      |
| Shaft diameter D (mm)                  | 8                                     |
| Shaft material                         | Stainless steel                       |
| Housing material                       | Die-cast zinc                         |

Features

- Flange with stator coupling, Ø 63 mm
- Hollow shaft, Ø 8 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 4096 pulses per revolution

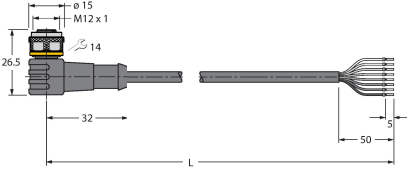
Wiring diagram



Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Electrical connection               | Connector, M12 × 1     |
|                                     | 8-pin                  |
| Axial shaft load                    | 40 N                   |
| Radial shaft load                   | 80 N                   |
| Environmental conditions            |                        |
| Ambient temperature                 | -40...+85 °C           |
| Vibration resistance (EN 60068-2-6) | 300 m/s², 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 3000 m/s², 6 ms        |
| Protection class                    | IP67                   |
| Protection class housing            | IP65                   |
| Protection class shaft              | IP67                   |

Accessories

| Dimension drawing                                                                   | Type        | ID      |                                                                                                                         |
|-------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------|
|  | RKC8T-2/TXL | 6625142 | Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |
|  | WKC8T-2/TXL | 6625145 | Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval   |