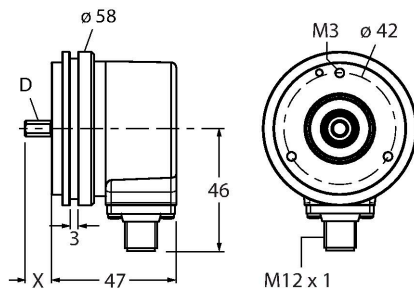


# REI-E-113T8S-2B2500-H1181

## Incremental Encoder

### Efficiency Line



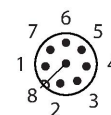
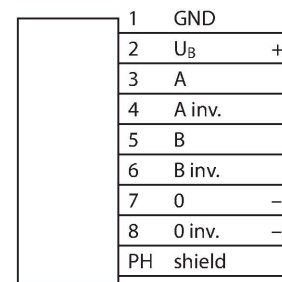
#### Features

- Synchro flange, Ø 58 mm
- Solid shaft, Ø 8 mm × 15 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- -20...+70 °C
- Max. 4500 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 2500 pulses per revolution

#### Technical data

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| Type                                      | REI-E-113T8S-2B2500-H1181          |
| ID                                        | 100011551                          |
| Measuring principle                       | Optical                            |
| <b>General data</b>                       |                                    |
| Max. Rotational Speed                     | 4500 rpm                           |
| Moment of inertia of the rotor            | $1.8 \times 10^{-5} \text{ kgm}^2$ |
| Starting torque                           | < 0.05 Nm                          |
| Output type                               | Incremental                        |
| Resolution, incremental                   | 2500 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                                    | Solid shaft                        |
| Flange type                               | Synchro flange                     |
| Flange diameter                           | Ø 58 mm                            |
| Shaft Type                                | Solid shaft                        |
| Shaft diameter D [mm]                     | 8                                  |

#### Wiring diagram

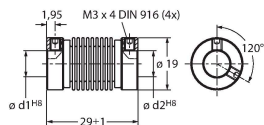
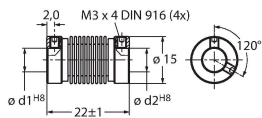


Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Shaft Length L [mm]                 | 15                     |
| Shaft material                      | Stainless steel        |
| Housing material                    | Die-cast zinc          |
| Electrical connection               | Connector, M12 × 1     |
|                                     | 8-pin                  |
| Axial shaft load                    | 40 N                   |
| Radial shaft load                   | 80 N                   |
| Environmental conditions            |                        |
| Ambient temperature                 | -20...+70 °C           |
| Vibration resistance (EN 60068-2-6) | 100 m/s², 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 1000 m/s², 6 ms        |
| Protection class                    | IP64                   |
| Protection class shaft              | IP64                   |

Accessories

|                                                                      |         |                                                                       |         |
|----------------------------------------------------------------------|---------|-----------------------------------------------------------------------|---------|
| RCS-15-08-06                                                         | 1545361 | RCS-19-10-08                                                          | 1545357 |
| Bellows coupling, outer diameter:<br>15 mm, bore diameter: 8 mm/6 mm |         | Bellows coupling, outer diameter:<br>19 mm, bore diameter: 10 mm/8 mm |         |



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   |