

# REI-E-113T12C-2B360-H1181

## Incremental Encoder

### Efficiency Line



#### Technical data

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| Type                                      | REI-E-113T12C-2B360-H1181          |
| ID                                        | 100011573                          |
| Measuring principle                       | Optical                            |
| General data                              |                                    |
| Max. Rotational Speed                     | 4500 rpm                           |
| Moment of inertia of the rotor            | $1.8 \times 10^{-5} \text{ kgm}^2$ |
| Starting torque                           | $< 0.05 \text{ Nm}$                |
| Output type                               | Incremental                        |
| Resolution, incremental                   | 360 ppr                            |
| Electrical data                           |                                    |
| Operating voltage                         | 10...30 VDC                        |
| No-load current                           | 100 mA                             |
| Output current                            | $\leq 30 \text{ mA}$               |
| 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. $0.5 \text{ V}$               |
| Output function                           | Push-Pull/HTL, invertable          |
| Mechanical data                           |                                    |
| Design                                    | Solid shaft                        |
| Flange type                               | Clamping flange                    |
| Flange diameter                           | $\varnothing 58 \text{ mm}$        |
| Shaft Type                                | Solid shaft                        |
| Shaft diameter D [mm]                     | 12                                 |

#### Features

- Clamping flange,  $\varnothing 58 \text{ mm}$
- Solid shaft,  $\varnothing 12 \text{ mm} \times 20 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- $-20 \dots +70 \text{ }^\circ\text{C}$
- Max. 4500 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12  $\times$  1 male connector, 8-pin
- 360 pulses per revolution

#### Wiring diagram

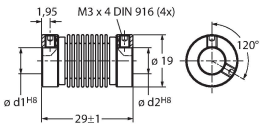
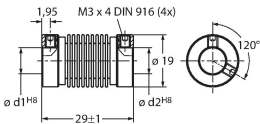


Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Shaft Length L [mm]                 | 20                     |
| 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-19-12-12                                                           | 1545354 | RCS-19-12-10                                                           | 1545355 |
| Bellows coupling, outer diameter:<br>19 mm, bore diameter: 12 mm/12 mm |         | Bellows coupling, outer diameter:<br>19 mm, bore diameter: 12 mm/10 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   |