

REI-E-113T8S-4B5000-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)
- 5...30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 5000 pulses per revolution

Technical data

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Type                                   | REI-E-113T8S-4B5000-H1181               |
| ID                                     | 100011626                               |
| Measuring principle                    | Optical                                 |
| General data                           |                                         |
| Max. Rotational Speed                  | 4500 rpm                                |
| Moment of inertia of the rotor         | 1.8 × 10 <sup>-5</sup> kgm <sup>2</sup> |
| Starting torque                        | < 0.05 Nm                               |
| Output type                            | Incremental                             |
| Resolution incremental                 | 5000 ppr                                |
| Electrical data                        |                                         |
| Operating voltage U <sub>B</sub>       | 5...30 VDC                              |
| No-load current                        | ≤ 90 mA                                 |
| Output current                         | ≤ 20 mA                                 |
| Short-circuit protection               | yes                                     |
| Wire break/reverse polarity protection | yes                                     |
| Pulse frequency max.                   | 300 kHz                                 |
| Signal level high                      | min. 2.5 V                              |
| Signal level low                       | max. 0.5 V                              |
| Output function                        | RS422/TTL, invertable                   |
| Mechanical data                        |                                         |
| Flange type                            | Synchro flange                          |
| Flange diameter                        | Ø 58 mm                                 |
| Shaft Type                             | Solid shaft                             |
| Shaft diameter D (mm)                  | 8                                       |
| Shaft Length L [mm]                    | 15                                      |
| Shaft material                         | Stainless steel                         |

Wiring diagram



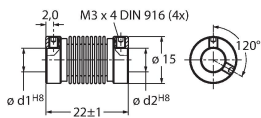
Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| 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

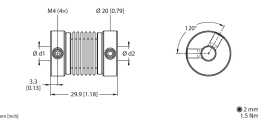
RCS-15-08-06 1545361

Bellows coupling, outer diameter:  
15 mm, bore diameter: 8 mm/6 mm



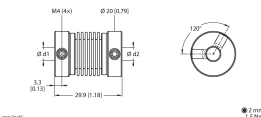
RA-BC-20-06-08 100048778

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



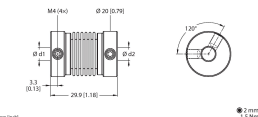
RA-BC-20-08-08 100048780

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



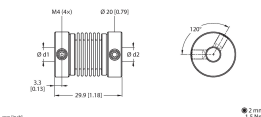
RA-BC-20-08-10 100048781

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



RA-BC-20-08-12 100049106

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

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