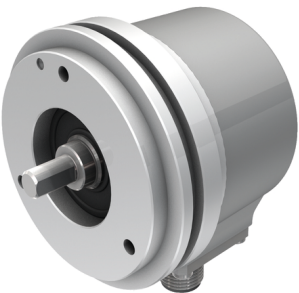
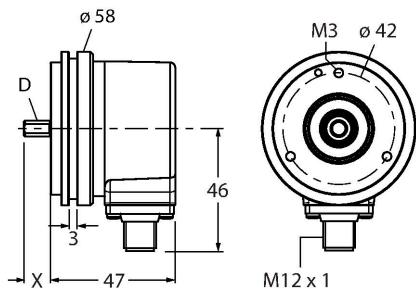


REI-10S6S-2B1000-H1181  
Incremental Encoder  
Industrial Line



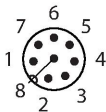
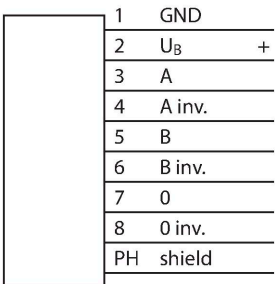
Technical data

|                                        |                                    |
|----------------------------------------|------------------------------------|
| Type                                   | REI-10S6S-2B1000-H1181             |
| ID                                     | 100010290                          |
| Measuring principle                    | Optical                            |
| General data                           |                                    |
| Max. rotational speed                  | 6000 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                 | 1000 ppr                           |
| Electrical data                        |                                    |
| Operating voltage $U_B$                | 10...30 VDC                        |
| No-load current                        | $\leq 100 \text{ mA}$              |
| Output current                         | $\leq 30 \text{ mA}$               |
| Short-circuit protection               | yes                                |
| Wire break/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          |
| Mechanical data                        |                                    |
| Flange type                            | Synchro flange                     |
| Flange diameter                        | $\varnothing 58 \text{ mm}$        |
| Shaft Type                             | Solid shaft                        |
| Shaft diameter D (mm)                  | 6                                  |
| Shaft Length L [mm]                    | 10                                 |
| Shaft material                         | Stainless steel                    |

Features

- Synchro flange,  $\varnothing 58 \text{ mm}$
- Solid shaft,  $\varnothing 6 \text{ mm} \times 10 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- $-40 \dots +85 \text{ }^\circ\text{C}$
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12  $\times$  1 male connector, 8-pin
- 1000 pulses per revolution

Wiring diagram

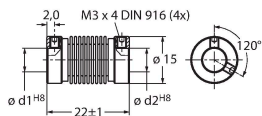


## Technical data

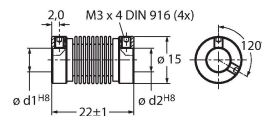
|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Housing material                    | Die-cast zinc                       |
| Electrical connection               | Connector, M12 × 1        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

## Accessories

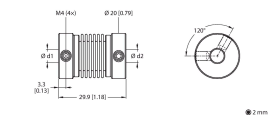
|                                                                   |         |
|-------------------------------------------------------------------|---------|
| RCS-15-08-06                                                      | 1545361 |
| Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm |         |



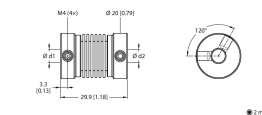
|                                                                   |         |
|-------------------------------------------------------------------|---------|
| RCS-15-06-04                                                      | 1545363 |
| Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm/4 mm |         |



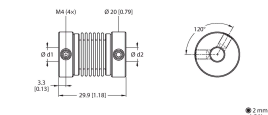
|                                                                  |           |
|------------------------------------------------------------------|-----------|
| RA-BC-20-06-06                                                   | 100048777 |
| Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 6 mm |           |



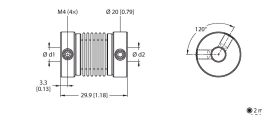
|                                                                  |           |
|------------------------------------------------------------------|-----------|
| RA-BC-20-06-08                                                   | 100048778 |
| Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 8 mm |           |



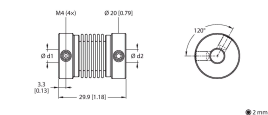
|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| RA-BC-20-06-10                                                    | 100048779 |
| Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 10 mm |           |



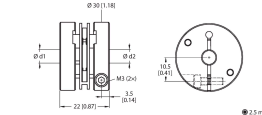
|                                                                |           |
|----------------------------------------------------------------|-----------|
| RA-BC-E-20-06-06                                               | 100048785 |
| Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 6 mm |           |



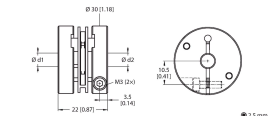
|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| RA-BC-E-20-06-10                                                | 100048786 |
| Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 10 mm |           |



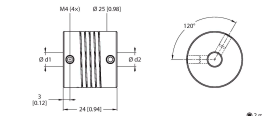
|                                                     |           |
|-----------------------------------------------------|-----------|
| RA-SDC-30-06-10                                     | 100048791 |
| Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 10 mm |           |



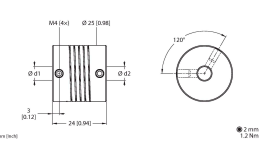
|                                                    |           |
|----------------------------------------------------|-----------|
| RA-SDC-30-06-06                                    | 100048790 |
| Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 6 mm |           |



|                                                       |           |
|-------------------------------------------------------|-----------|
| RA-HC-25-06-06                                        | 100048794 |
| Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 6 mm |           |



RA-HC-25-06-10 100048795



Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 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   |