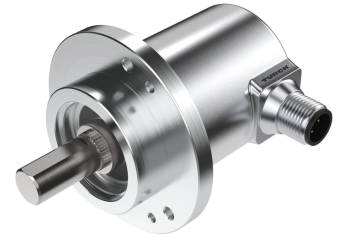
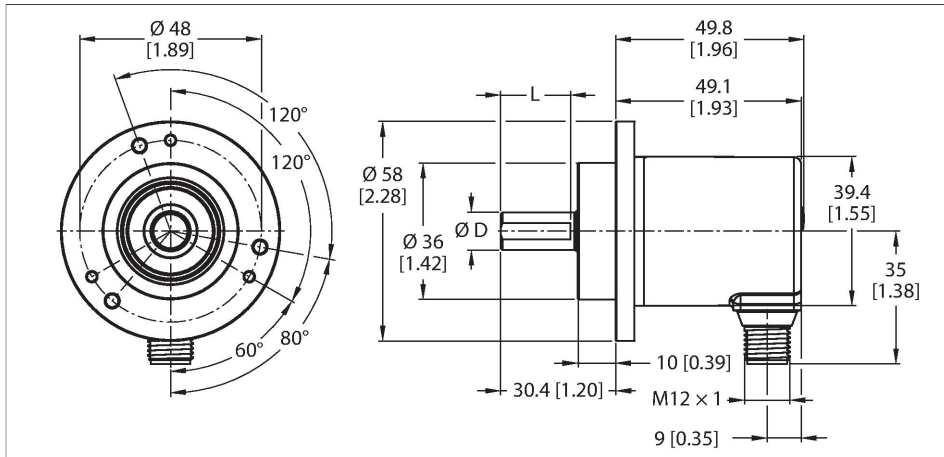


RM-116T10C-8BSARNS-H1151  
Absolute Shaft Encoder  
Industrial Line



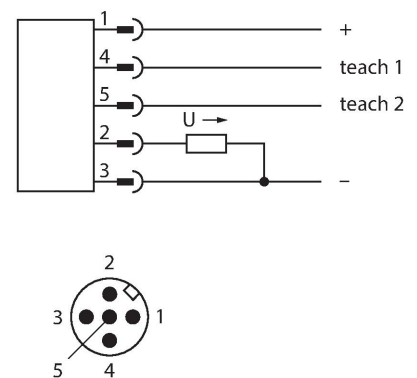
## Technical data

|                                        |                          |
|----------------------------------------|--------------------------|
| Type                                   | RM-116T10C-8BSARNS-H1151 |
| ID                                     | 200006714                |
| Measuring principle                    | Magnetic                 |
| General data                           |                          |
| Max. rotational speed                  | 4000 rpm                 |
| Absolute accuracy                      | ± 1 ° At 25 °C           |
| Output type                            | Absolute multiturn       |
| Electrical data                        |                          |
| Operating voltage U <sub>B</sub>       | 15...30 VDC              |
| No-load current                        | ≤ 30 mA                  |
| Short-circuit protection               | yes                      |
| Wire break/reverse polarity protection | yes                      |
| Output function                        | Analog output            |
| Voltage output                         | 0...10 V                 |
| DA converter resolution                | 12 Bit                   |
| Mechanical data                        |                          |
| Flange type                            | Clamping flange          |
| Flange diameter                        | Ø 58 mm                  |
| Shaft Type                             | Solid shaft              |
| Shaft diameter D (mm)                  | 10                       |
| Shaft Length L [mm]                    | 20                       |
| Shaft material                         | Stainless steel          |
| Housing material                       | Die-cast zinc            |

## Features

- Absolute Shaft Encoder
- Protection class IP65 on housing and shaft side
- -40...+85°C
- Max. 4000 rpm (continuous operation: 2000)
- Energy harvesting technology
- 10-30 VDC power supply
- 0-10V Analog Output
- M12 connection, 5-pin

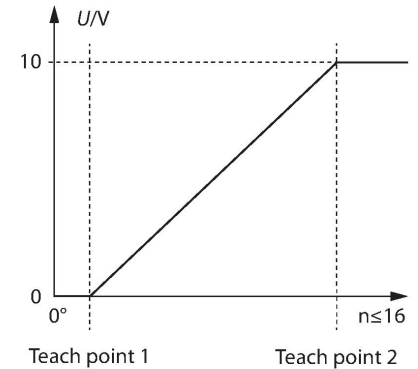
## Wiring diagram



### Functional principle

## Technical data

|                                     |                               |
|-------------------------------------|-------------------------------|
| Electrical connection               | Connector, M12 × 1            |
|                                     | 5-pin                         |
| Axial shaft load                    | 40 N                          |
| Radial shaft load                   | 80 N                          |
| Environmental conditions            |                               |
| Ambient temperature                 | -40...+85 °C                  |
| Vibration resistance (EN 60068-2-6) | 30 g (300 m/s²), 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 500 g (2500 m/s²), 4 ms       |
| Protection class                    | IP65                          |
| Protection class shaft              | IP65                          |



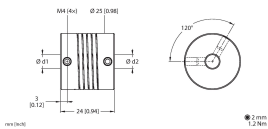
## Accessories

|                  |           |                                                                       |
|------------------|-----------|-----------------------------------------------------------------------|
| RA-BC-20-06-10   | 100048779 | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 6 mm, d2 = 10 mm  |
| RA-BC-20-08-10   | 100048781 | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 8 mm, d2 = 10 mm  |
| RA-BC-20-10-10   | 100048782 | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 10 mm, d2 = 10 mm |
| RA-BC-20-10-12   | 100048783 | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 10 mm, d2 = 12 mm |
| RA-BC-E-20-06-10 | 100048786 | Stainless steel bellows coupling Ø<br>20 mm; d1 = 6 mm, d2 = 10 mm    |
| RA-BC-E-20-10-10 | 100048787 | Stainless steel bellows coupling Ø<br>20 mm; d1 = 10 mm, d2 = 10 mm   |
| RA-BC-E-20-10-12 | 100048788 | Stainless steel bellows coupling Ø<br>20 mm; d1 = 10 mm, d2 = 12 mm   |
| RA-SDC-30-10-10  | 100048792 | Spring disc coupling Ø 30 mm; d1 =<br>10 mm, d2 = 10 mm               |
| RA-SDC-30-10-12  | 100048793 | Spring disc coupling Ø 30 mm; d1 =<br>10 mm, d2 = 12 mm               |
| RA-HC-25-10-10   | 100048796 | Aluminum helix coupling Ø 25 mm; d1<br>= 10 mm, d2 = 10 mm            |

RA-HC-25-10-12

100048797

Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 12 mm



Wiring accessories

| Dimension drawing | Type          | ID      |                                                                                                                         |
|-------------------|---------------|---------|-------------------------------------------------------------------------------------------------------------------------|
|                   | RKC4.5T-2/TEL | 6625016 | Connection cable, M12 female connector, straight, 5-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |

