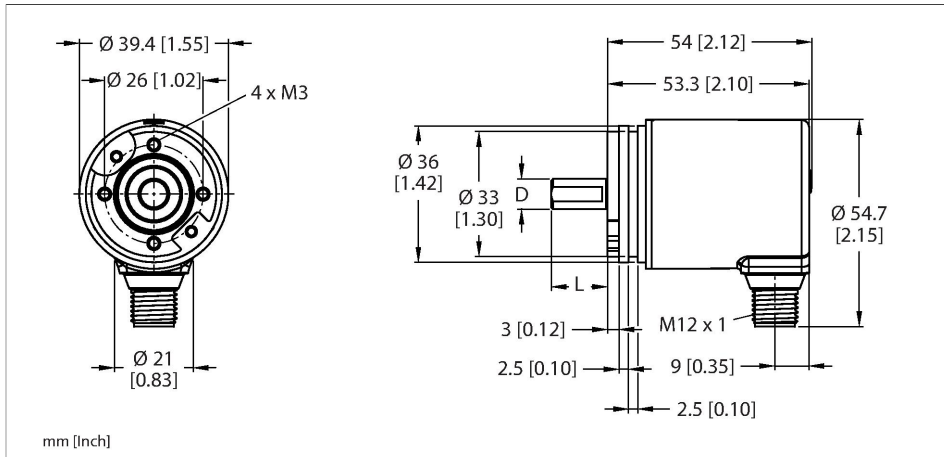


# REM-101S10S-9F32B-H1151

## Absolute Rotary Encoder - Multiturn

### Industrial Line



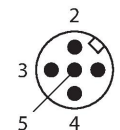
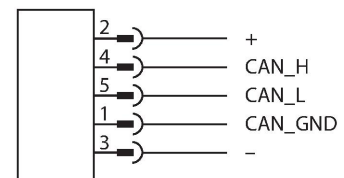
### Features

- Synchro flange, Ø 36 mm
- Solid shaft, Ø 10 mm × 20 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+80 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- 10-30 VDC
- SAE J1939
- M12 connection, 5-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable up to 29 bit over total resolution, default 18 bit
- Total resolution 32 bit scalable, default: 32 bit

### Technical data

|                                        |                         |
|----------------------------------------|-------------------------|
| Type                                   | REM-101S10S-9F32B-H1151 |
| ID                                     | 100023545               |
| Measuring principle                    | Magnetic                |
| General data                           |                         |
| Max. rotational speed                  | 4000 rpm                |
| Starting torque                        | < 0.01 Nm               |
| Repetition accuracy                    | ± 0.2 ° At 25 °C        |
| Absolute accuracy                      | ± 1 ° At 25 °C          |
| Output type                            | Absolute multiturn      |
| Electrical data                        |                         |
| Operating voltage U <sub>B</sub>       | 10...30 VDC             |
| No-load current                        | ≤ 80 mA                 |
| Short-circuit protection               | yes                     |
| Wire break/reverse polarity protection | yes                     |
| Communication protocol                 | SAE J1939               |
| Interface                              | SAE J1939               |
| Mechanical data                        |                         |
| Flange type                            | Synchro flange          |
| Flange diameter                        | Ø 36 mm                 |
| Shaft Type                             | Solid shaft             |
| Shaft diameter D (mm)                  | 10                      |
| Shaft Length L [mm]                    | 20                      |
|                                        | Shaft with surface      |

### Wiring diagram

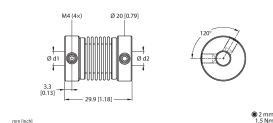


## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Shaft material                      | Stainless steel                     |
| Housing material                    | Die-cast zinc                       |
| Electrical connection               | Connector, M12 × 1                  |
| Axial shaft load                    | 20 N                                |
| Radial shaft load                   | 40 N                                |
| <b>Environmental conditions</b>     |                                     |
| Ambient temperature                 | -40...+80 °C                        |
| Vibration resistance (EN 60068-2-6) | 300 m/s <sup>2</sup> , 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 2500 m/s <sup>2</sup> , 6 ms        |
| Protection class                    | IP67                                |
| Protection class shaft              | IP67                                |

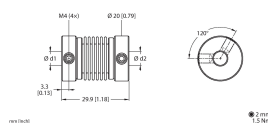
## Accessories

### RA-BC-20-06-10 100048779



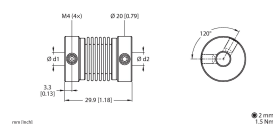
Bellows coupling with aluminum hub  
Ø 20 mm; d1 = 6 mm, d2 = 10 mm

### RA-BC-20-08-10 100048781



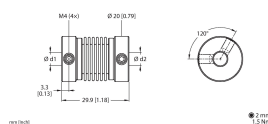
Bellows coupling with aluminum hub  
Ø 20 mm; d1 = 8 mm, d2 = 10 mm

### RA-BC-20-10-10 100048782



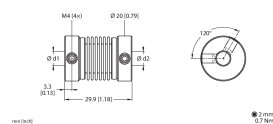
Bellows coupling with aluminum hub  
Ø 20 mm; d1 = 10 mm, d2 = 10 mm

### RA-BC-20-10-12 100048783



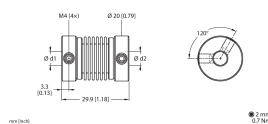
Bellows coupling with aluminum hub  
Ø 20 mm; d1 = 10 mm, d2 = 12 mm

### RA-BC-E-20-06-10 100048786



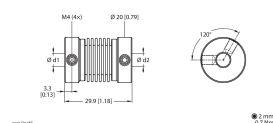
Stainless steel bellows coupling Ø  
20 mm; d1 = 6 mm, d2 = 10 mm

### RA-BC-E-20-10-10 100048787



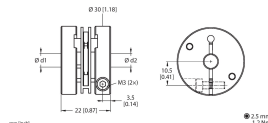
Stainless steel bellows coupling Ø  
20 mm; d1 = 10 mm, d2 = 10 mm

### RA-BC-E-20-10-12 100048788



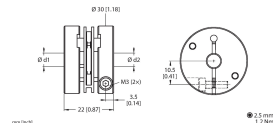
Stainless steel bellows coupling Ø  
20 mm; d1 = 10 mm, d2 = 12 mm

### RA-SDC-30-10-10 100048792



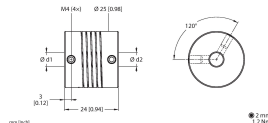
Spring disc coupling Ø 30 mm; d1 =  
10 mm, d2 = 10 mm

### RA-SDC-30-10-12 100048793



Spring disc coupling Ø 30 mm; d1 =  
10 mm, d2 = 12 mm

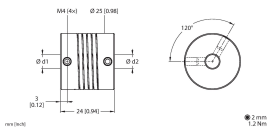
### RA-HC-25-10-10 100048796



Aluminum helix coupling Ø 25 mm; d1  
= 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      |                                                                                                                                               |
|-------------------|------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                   | RKC5701-5M | 6931034 | Bus cable for CAN (DeviceNet, - CANopen), M12 female connector, straight, cable length: 5 m, jacket material: PUR, anthracite; cULus approval |

