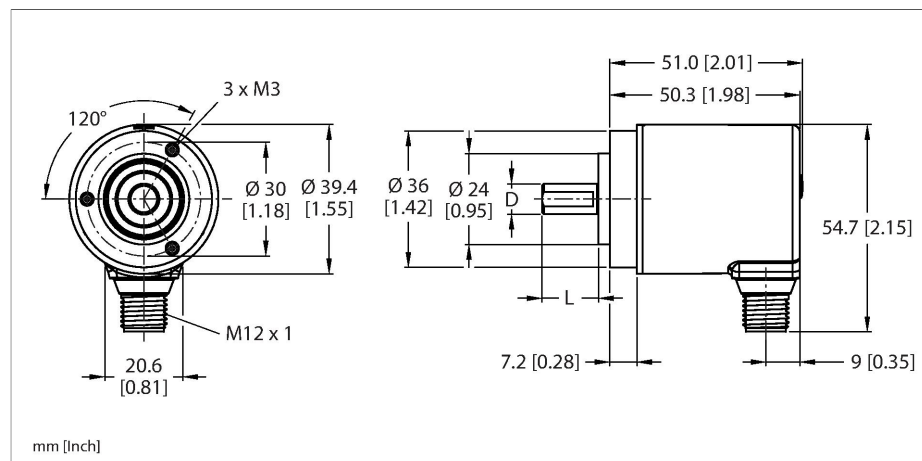


# REM-97S6C-8BAR-H1151

## Absolute Rotary Encoder - Multiturn Industrial Line



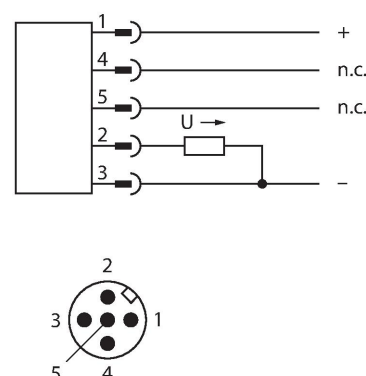
### Technical data

|                                        |                      |
|----------------------------------------|----------------------|
| Type                                   | REM-97S6C-8BAR-H1151 |
| ID                                     | 100011311            |
| Measuring principle                    | Magnetic             |
| General data                           |                      |
| Max. rotational speed                  | 4000 rpm             |
| Starting torque                        | < 0.01 Nm            |
| Absolute accuracy                      | ± 1 ° At 25 °C       |
| Output type                            | Absolute multiturn   |
| Electrical data                        |                      |
| Operating voltage $U_B$                | 15...30 VDC          |
| No-load current                        | ≤ 35 mA              |
| Short-circuit protection               | yes                  |
| Wire break/reverse polarity protection | yes                  |
| Output function                        | Analog output        |
| Voltage output                         | 0...10 V             |
| Mechanical data                        |                      |
| Flange type                            | Clamping flange      |
| Flange diameter                        | Ø 36 mm              |
| Shaft Type                             | Solid shaft          |
| Shaft diameter D (mm)                  | 6                    |
| Shaft Length L [mm]                    | 12.5                 |
| Shaft material                         | Stainless steel      |
| Housing material                       | Die-cast zinc        |
| Electrical connection                  | Connector, M12 × 1   |
| Axial shaft load                       | 20 N                 |
| Radial shaft load                      | 40 N                 |

### Features

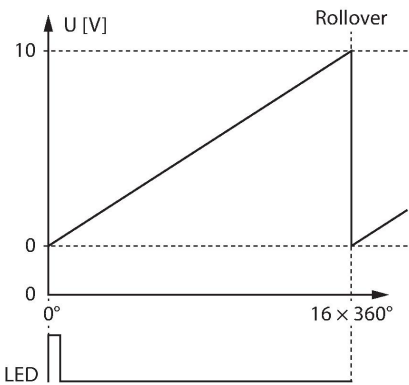
- Clamping flange, Ø 36 mm
- Solid shaft, Ø 6 mm × 12.5 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 15...30 VDC
- Analog output, 0...10 V per 16 CW revolutions
- 12-bit resolution
- M12 × 1 male connector, 5-pin

### Wiring diagram



# Technical data

| 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)    | 2500 m/s <sup>2</sup> , 6 ms        |
| Protection class                    | IP67                                |
| Protection class shaft              | IP67                                |



# Accessories

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

