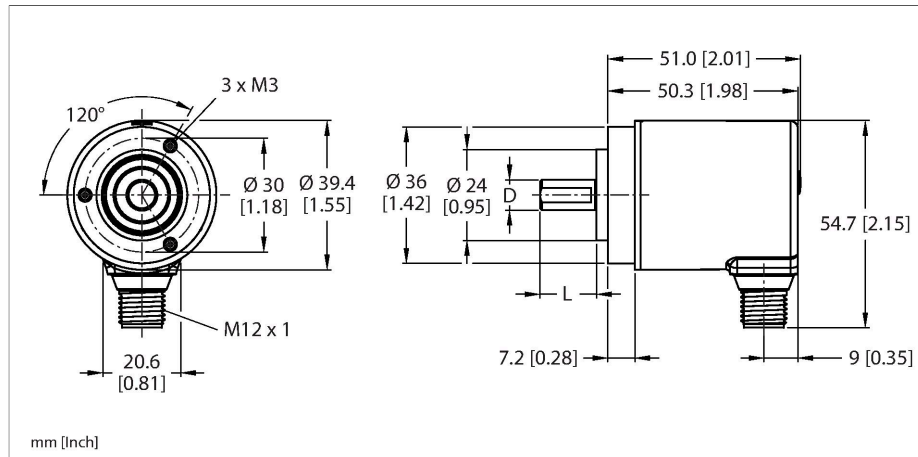


# REM-97SA0C-8BAL-H1151

## Absolute Rotary Encoder - Multiturn Industrial Line



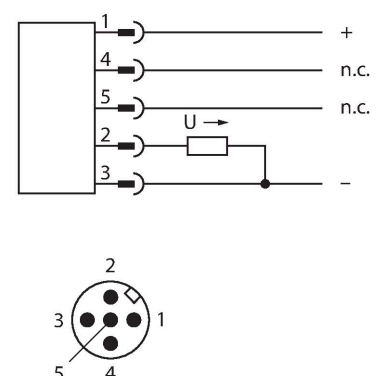
### Technical data

|                                        |                       |
|----------------------------------------|-----------------------|
| Type                                   | REM-97SA0C-8BAL-H1151 |
| ID                                     | 100011322             |
| 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 <sub>B</sub>       | 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)                  | 6.35                  |
| 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

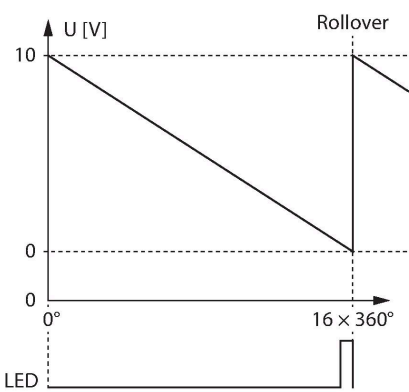
- Clamping flange, Ø 36 mm
- Solid shaft, Ø 6.35mm × 12.5mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 15...30 VDC
- Analog output, 0...10 V per 16 CCW revolutions
- 12-bit resolution
- M12 × 1 male connector, 5-pin

### Wiring diagram



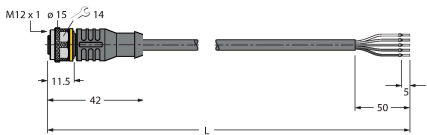
Technical data

| Environmental conditions            |                        |
|-------------------------------------|------------------------|
| Ambient temperature                 | -40...+85 °C           |
| Vibration resistance (EN 60068-2-6) | 300 m/s², 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 2500 m/s², 6 ms        |
| Protection class                    | IP67                   |
| Protection class shaft              | IP67                   |



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