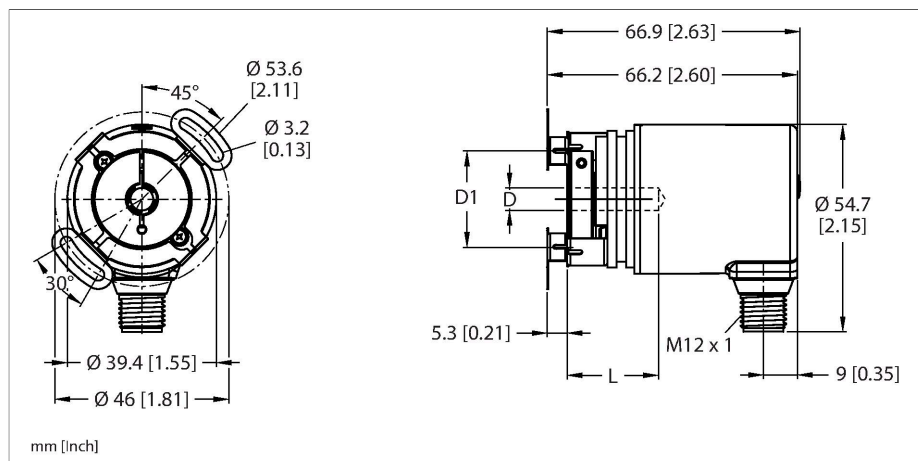


# REM-98B8E-8BAL-H1151

## Absolute Rotary Encoder - Multiturn Industrial Line



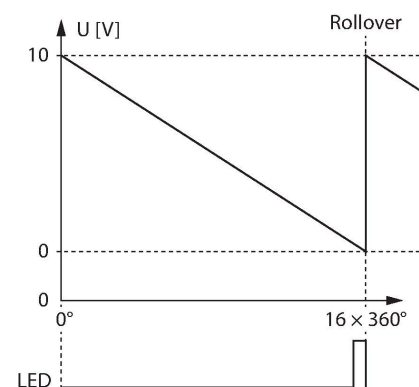
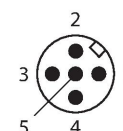
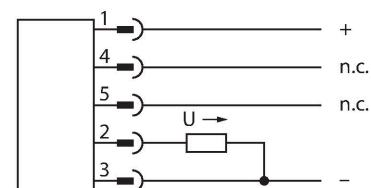
### Features

- Flange with stator coupling, Ø 46 mm
- Blind hole hollow shaft, Ø 8 mm (plug-in depth max. 18.5 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 CCW revolutions
- 12-bit resolution
- M12 × 1 male connector, 5-pin

### Technical data

|                                          |                             |
|------------------------------------------|-----------------------------|
| Type                                     | REM-98B8E-8BAL-H1151        |
| ID                                       | 100011352                   |
| Measuring principle                      | Magnetic                    |
| <b>General data</b>                      |                             |
| Max. rotational speed                    | 4000 rpm                    |
| Starting torque                          | < 0.01 Nm                   |
| Absolute accuracy                        | ± 1 ° At 25 °C              |
| Output type                              | Absolute multiturn          |
| <b>Electrical data</b>                   |                             |
| 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                    |
| <b>Mechanical data</b>                   |                             |
| Flange type                              | Flange with stator coupling |
| Flange diameter                          | Ø 46 mm                     |
| Shaft Type                               | Blind hole shaft            |
| Shaft diameter D (mm)                    | 8                           |
| Shaft Length L [mm]                      | 18.5                        |
| Outer diameter of compression fitting D1 | 25.5 mm                     |
| Shaft material                           | Stainless steel             |
| Housing material                         | Die-cast zinc               |
| Electrical connection                    | Connector, M12 × 1          |
|                                          | M12, 5-pin                  |

### Wiring diagram



Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Axial shaft load                    | 20 N                   |
| Radial shaft load                   | 40 N                   |
| 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 |

