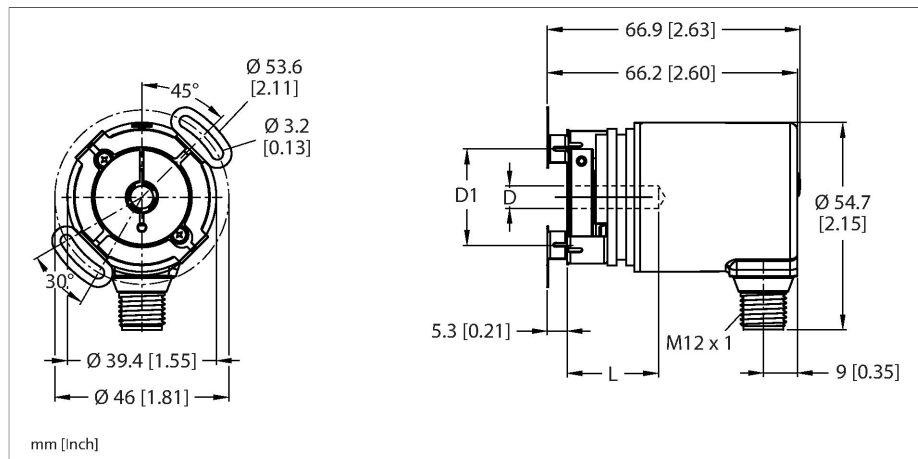


# REM-98B8E-7AAL-H1151

## Absolute Rotary Encoder - Multiturn Industrial Line



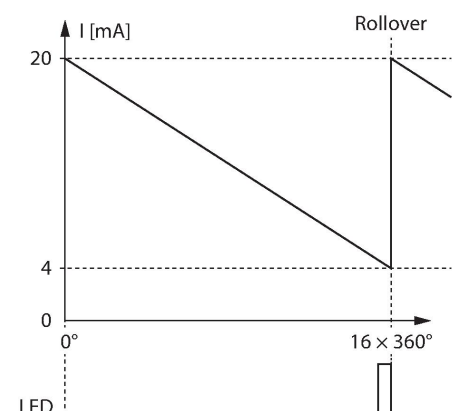
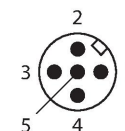
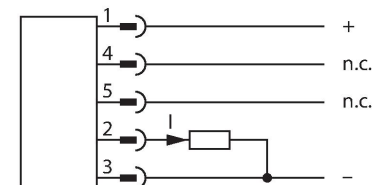
### Features

- 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
- 10...30 VDC
- Analog output, 4...20 mA per 16 CCW revolutions
- 12-bit resolution
- M12 × 1 male, 5-pin

### Technical data

|                                           |                             |
|-------------------------------------------|-----------------------------|
| Type                                      | REM-98B8E-7AAL-H1151        |
| ID                                        | 100011336                   |
| 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                         | 10...30 VDC                 |
| No-load current                           | 38 mA                       |
| Short-circuit protection                  | yes                         |
| Wire breakage/Reverse polarity protection | yes                         |
| Output function                           | Analog output               |
| Current output                            | 4...20 mA                   |
| <b>Mechanical data</b>                    |                             |
| Design                                    | Hollow shaft                |
| 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               |

### Wiring diagram



## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Electrical connection               | Connector, M12 × 1                  |
|                                     | M12, 5-pin                          |
| 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/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                                |