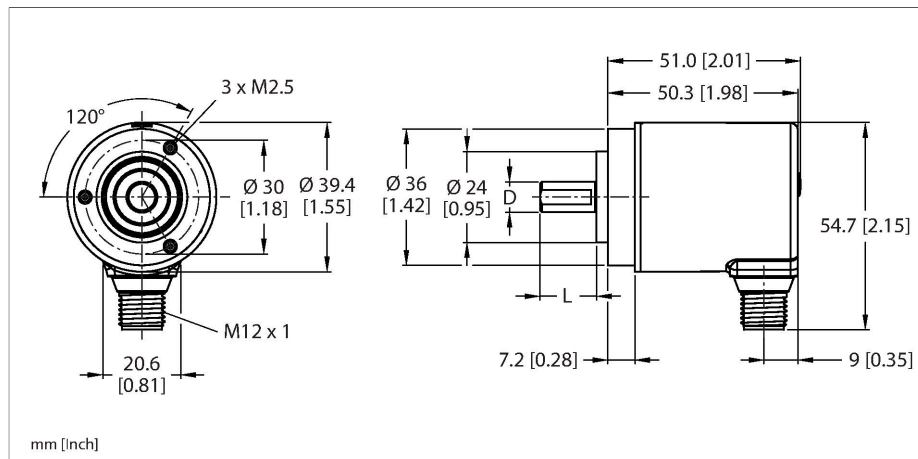


# REM-101SA0C-9F32B-H1151

## Absolute Rotary Encoder - Multiturn Industrial Line



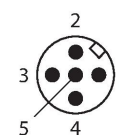
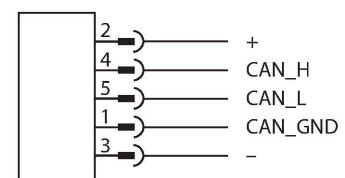
### Technical data

|                                           |                         |
|-------------------------------------------|-------------------------|
| Type                                      | REM-101SA0C-9F32B-H1151 |
| ID                                        | 100023542               |
| 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                         | 10...30 VDC             |
| No-load current                           | 80 mA                   |
| Short-circuit protection                  | yes                     |
| Wire breakage/Reverse polarity protection | yes                     |
| Communication protocol                    | SAE J1939               |
| Interface                                 | SAE J1939               |
| Mechanical data                           |                         |
| Design                                    | Solid shaft             |
| 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           |

### 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...+80 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- 10...30 VDC
- SAE J1939
- M12 × 1 male connector, 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

### Wiring diagram



Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Electrical connection               | Connector, M12 × 1     |
| Axial shaft load                    | 20 N                   |
| Radial shaft load                   | 40 N                   |
| Environmental conditions            |                        |
| Ambient temperature                 | -40...+80 °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      |                                                                                                                                               |
|------------------------------------------------------------------------------------|------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  | RKC5701-5M | 6931034 | Bus cable for CAN (DeviceNet, - CANopen), M12 female connector, straight, cable length: 5 m, jacket material: PUR, anthracite; cULus approval |