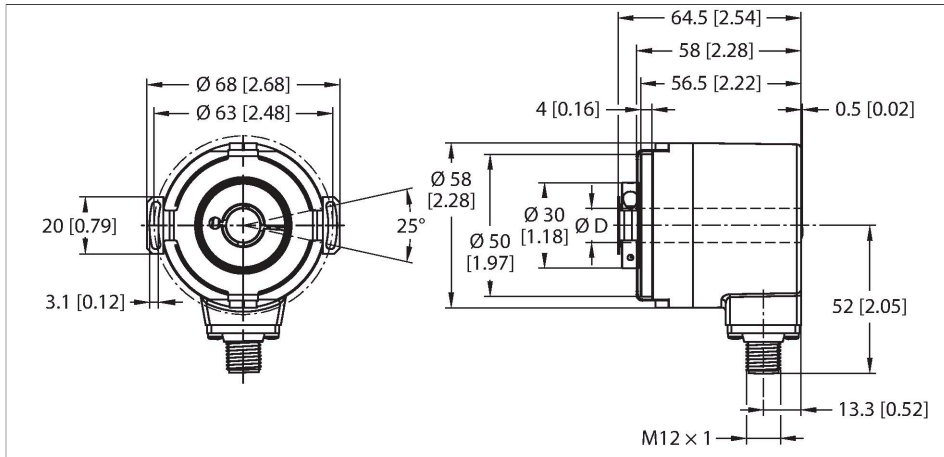


# RM-106B12E-9D32B-B1M12/N46

## Absolute Rotary Encoder - Multiturn

### Industrial Line



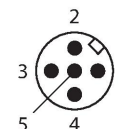
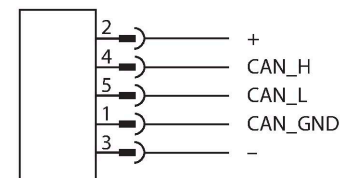
#### Technical data

|                                        |                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------|
| Type                                   | RM-106B12E-9D32B-B1M12/N46                                                    |
| ID                                     | 200004508                                                                     |
| Measuring principle                    | Optical                                                                       |
| <b>General data</b>                    |                                                                               |
| Max. rotational speed                  | 8000 rpm                                                                      |
| Moment of inertia of the rotor         | $6 \times 10^{-6} \text{ kgm}^2$                                              |
| Absolute accuracy                      | $\pm 0.015^\circ$ At $25^\circ\text{C}$                                       |
| Output type                            | Absolute multiturn                                                            |
| Resolution singleturn                  | 19 Bit                                                                        |
| <b>Electrical data</b>                 |                                                                               |
| Operating voltage $U_s$                | 10...30 VDC                                                                   |
| No-load current                        | $\leq 80 \text{ mA}$                                                          |
| Short-circuit protection               | yes                                                                           |
| Wire break/reverse polarity protection | yes                                                                           |
| Communication protocol                 | CANopen                                                                       |
| Interface                              | CAN high-speed acc. to ISO 11898, Basic and Full-CAN, CAN specification 2.0 B |
| Node ID                                | 1...127 mit Software konfigurierbar; Werkseinstellung: 63                     |
| Baud rate                              | 10-1000 kbps software configurable                                            |
| <b>Mechanical data</b>                 |                                                                               |
| Flange type                            | Flange with stator coupling                                                   |
| Flange diameter                        | $\varnothing 63 \text{ mm}$                                                   |

#### Features

- Flange with slotted flex mount,  $\varnothing 63 \text{ mm}$
- Hollow shaft,  $\varnothing 12 \text{ mm}$
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on the shaft side
- $-40 \dots +80^\circ\text{C}$
- max. 6000 rev / min
- CANopen
- M12 x 1 connector
- Singleturn resolution scalable to 16 bit (default 16 bit)
- Multiturn resolution scalable to 16 bit (default 16 bit)

#### Wiring diagram



## Technical data

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Shaft Type                          | Blind hole shaft                           |
| Shaft diameter D (mm)               | 12                                         |
| Shaft material                      | Stainless Steel                            |
| Housing material                    | Die-cast zinc                              |
| Electrical connection               | Connector, M12 × 1                         |
|                                     | 1 x M12                                    |
| Axial shaft load                    | 40 N                                       |
| Radial shaft load                   | 80 N                                       |
| Environmental conditions            |                                            |
| Ambient temperature                 | -40...+80 °C                               |
| Vibration resistance (EN 60068-2-6) | 10 g (100 m/s <sup>2</sup> ), 55...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 250 g (2500 m/s <sup>2</sup> ), 6 ms       |
| Protection class                    | IP67                                       |
| Protection class shaft              | IP65                                       |