

# REM-191B8T-IOL32B-H1141

## Absolute Rotary Encoder - Multiturn – IO-Link Industrial Line



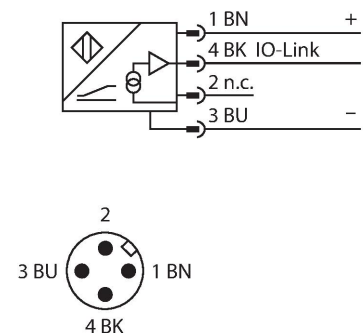
### Features

- Flange with mounting element
- 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
- 18...30 VDC
- M12 × 1 male connector, 4-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable only to 18 bits over total resolution, default 18 bits
- Total resolution 32 bit scalable, default 32 bit

### Technical data

|                                          |                              |
|------------------------------------------|------------------------------|
| Type                                     | REM-191B8T-IOL32B-H1141      |
| ID                                       | 100018248                    |
| Measuring principle                      | Magnetic                     |
| General data                             |                              |
| Max. rotational speed                    | 4000 rpm                     |
| Starting torque                          | < 0.01 Nm                    |
| Repetition accuracy                      | ± 0.2 °                      |
| Absolute accuracy                        | ± 0.5 °                      |
| Output type                              | Absolute multiturn           |
| Electrical data                          |                              |
| Operating voltage $U_B$                  | 18...30 VDC                  |
| No-load current                          | ≤ 40 mA                      |
| Short-circuit protection                 | yes                          |
| Wire break/reverse polarity protection   | yes                          |
| Communication protocol                   | IO-Link                      |
| IO-Link                                  |                              |
| IO-Link specification                    | V 1.1                        |
| Programming                              | FDT/DTM                      |
| Mechanical data                          |                              |
| Flange type                              | Flange with mounting element |
| Flange diameter                          | Ø 36 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              |

### Wiring diagram



## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Housing material                    | Die-cast zinc                       |
| Electrical connection               | Connector, M12 × 1                  |
| 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)    | 300 m/s <sup>2</sup> , 10...2000 Hz |
| Protection class                    | IP67                                |
| Protection class shaft              | IP67                                |
| MTTF                                | 25 years                            |