

# REM-191B6T-IOL32B-H1141

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



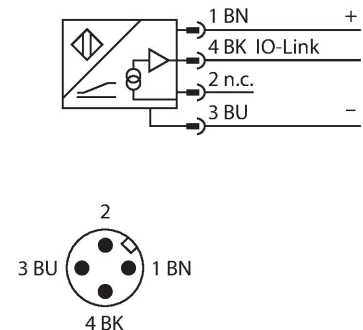
### Technical data

|                                           |                              |
|-------------------------------------------|------------------------------|
| Type                                      | REM-191B6T-IOL32B-H1141      |
| ID                                        | 100018247                    |
| Measuring principle                       | Magnetic                     |
| <b>General data</b>                       |                              |
| Max. Rotational Speed                     | 4000 rpm                     |
| Starting torque                           | < 0.01 Nm                    |
| Repetition accuracy                       | ± 0.2 °                      |
| Absolute accuracy                         | ± 0.5 °                      |
| Output type                               | Absolute multiturn           |
| <b>Electrical data</b>                    |                              |
| Operating voltage                         | 18...30 VDC                  |
| No-load current                           | 30 mA                        |
| Short-circuit protection                  | yes                          |
| Wire breakage/Reverse polarity protection | yes                          |
| Communication protocol                    | IO-Link                      |
| <b>IO-Link</b>                            |                              |
| IO-Link specification                     | V 1.1                        |
| Programming                               | FDT/DTM                      |
| <b>Mechanical data</b>                    |                              |
| Design                                    | Hollow shaft                 |
| Flange type                               | Flange with mounting element |
| Flange diameter                           | Ø 36 mm                      |
| Shaft Type                                | Blind hole shaft             |
| Shaft diameter D [mm]                     | 6                            |
| Shaft Length L [mm]                       | 18.5                         |

### Features

- Flange with mounting element
- Blind hole hollow shaft, Ø 6 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

### Wiring diagram



## Technical data

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Outer diameter of compression fitting D1 | 24 mm                               |
| Shaft material                           | Stainless steel                     |
| 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                            |