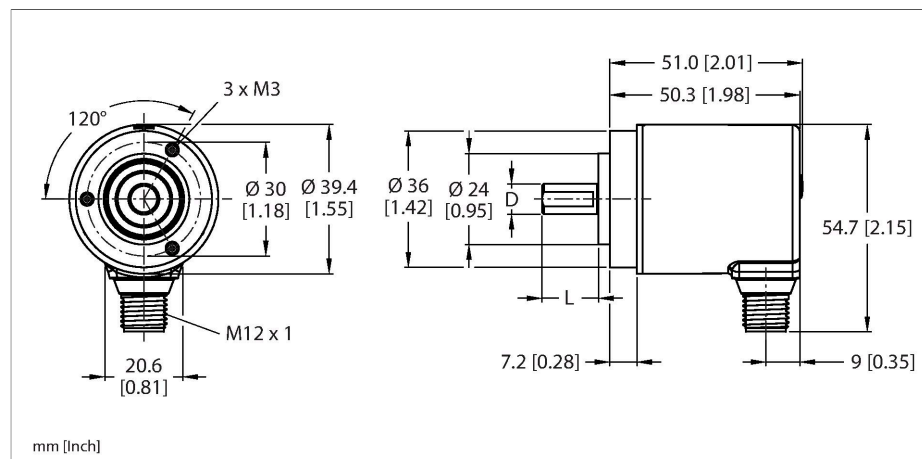


# REM-190SA0C-IOL32B-H1141

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



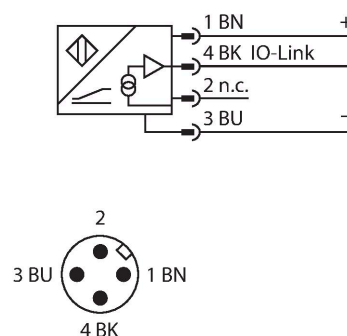
### Technical data

|                                        |                          |
|----------------------------------------|--------------------------|
| Type                                   | REM-190SA0C-IOL32B-H1141 |
| ID                                     | 100018238                |
| 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 <sub>B</sub>       | 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                            | 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...+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

|                                     |                        |
|-------------------------------------|------------------------|
| 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/s², 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 2500 m/s², 6 ms        |
| Protection class                    | IP67                   |
| Protection class shaft              | IP67                   |
| MTTF                                | 25 years               |