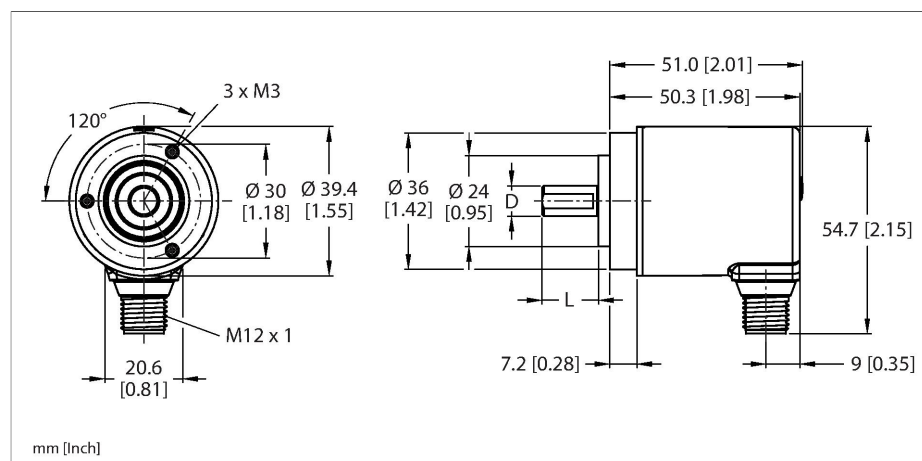


# RES-192S8C-IOL14B-H1141

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



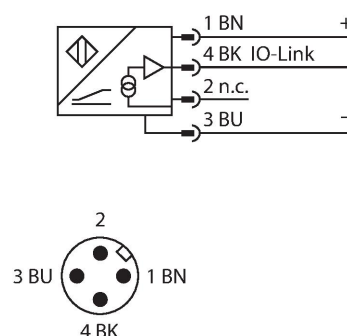
### Technical data

|                                        |                         |
|----------------------------------------|-------------------------|
| Type                                   | RES-192S8C-IOL14B-H1141 |
| ID                                     | 100020142               |
| Measuring principle                    | Magnetic                |
| General data                           |                         |
| Max. rotational speed                  | 4000 rpm                |
| Starting torque                        | < 0.01 Nm               |
| Measuring range                        | 0...360 °               |
| Repetition accuracy                    | ± 0.2 ° At 25 °C        |
| Absolute accuracy                      | ± 1 ° At 25 °C          |
| Output type                            | Absolute singleturn     |
| Resolution singleturn                  | 14 Bit                  |
| Electrical data                        |                         |
| Operating voltage U <sub>B</sub>       | 18...30 VDC             |
| No-load current                        | ≤ 30 mA                 |
| Short-circuit protection               | yes                     |
| Wire break/reverse polarity protection | yes                     |
| Communication protocol                 | 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)                  | 8                       |
| Shaft Length L [mm]                    | 15                      |
| Shaft material                         | Stainless steel         |

### Features

- Clamping flange, Ø 36 mm
- Solid shaft, Ø 8 mm × 15 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)
- 18...30 VDC
- M12 × 1 male connector, 8-pin
- 360° resolved in 14 bit (16384 positions)

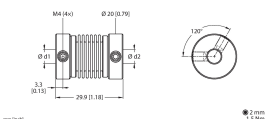
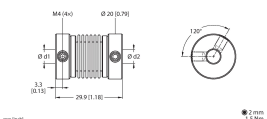
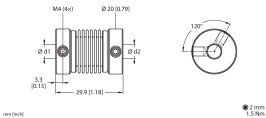
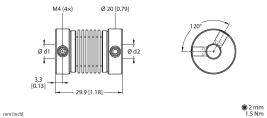
### Wiring diagram



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

Accessories

|                                                                                     |                                                                      |                                                                                      |                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| RA-BC-20-06-08                                                                      | 100048778                                                            | RA-BC-20-08-08                                                                       | 100048780                                                            |
|   | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 6 mm, d2 = 8 mm  |   | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 8 mm, d2 = 8 mm  |
| RA-BC-20-08-10                                                                      | 100048781                                                            | RA-BC-20-08-12                                                                       | 100049106                                                            |
|  | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 8 mm, d2 = 10 mm |  | Bellows coupling with aluminum hub<br>Ø 20 mm; d1 = 8 mm, d2 = 12 mm |