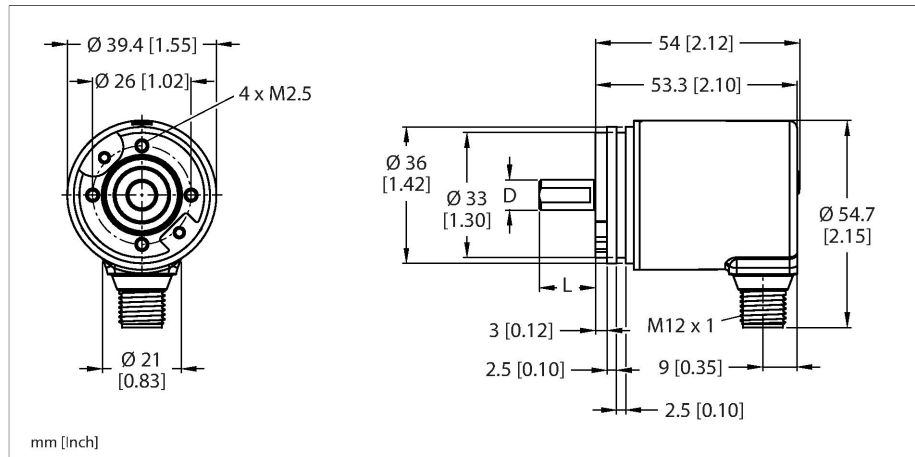


# RES-192SA0S-IOL14B-H1141

## Absolute Rotary Encoder - Single-Turn – IO-Link Industrial Line



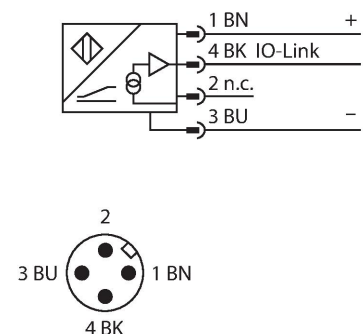
### Features

- Synchro flange, Ø 36 mm
- Solid shaft, Ø 6.35 mm × 12.5 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)
- 18...30 VDC
- M12 × 1 male connector, 8-pin
- 360° resolved in 14 bit (16384 positions)

### Wiring diagram

### Technical data

|                                           |                          |
|-------------------------------------------|--------------------------|
| Type                                      | RES-192SA0S-IOL14B-H1141 |
| ID                                        | 100020148                |
| Measuring principle                       | Magnetic                 |
| <b>General data</b>                       |                          |
| 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                   |
| <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                  |
| IO-Link specification                     | V 1.1                    |
| Programming                               | FDT/DTM                  |
| <b>Mechanical data</b>                    |                          |
| Design                                    | Solid shaft              |
| Flange type                               | Synchro flange           |
| Flange diameter                           | Ø 36 mm                  |
| Shaft Type                                | Solid shaft              |
| Shaft diameter D [mm]                     | 6.35                     |



## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Shaft Length L [mm]                 | 12.5                                |
|                                     | Shaft with surface                  |
| 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)    | 2500 m/s <sup>2</sup> , 6 ms        |
| Protection class                    | IP67                                |
| Protection class shaft              | IP67                                |