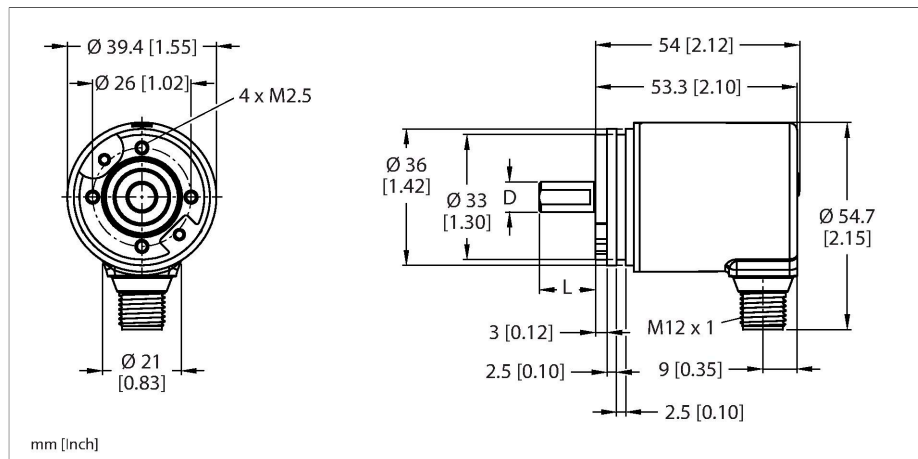


RES-180S8S-8BAL-H1151/N0

Absolute Rotary Encoder - Single-Turn Industrial Line



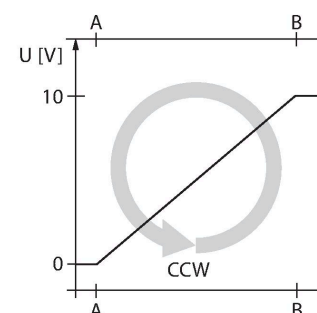
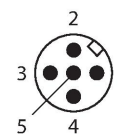
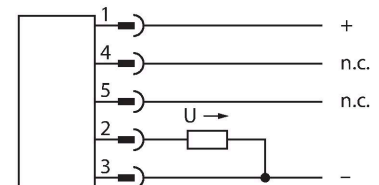
Features

- Synchro 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)
- 15...30 VDC
- Analog output 0...10 V
- Counting mode CCW
- M12 × 1 male connector, 5-pin
- 360° resolved in 12 bit (4096 positions)

Technical data

| | |
|--------------------------|--------------------------|
| Type | RES-180S8S-8BAL-H1151/N0 |
| ID | 100016363 |
| 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 | 12 Bit |
| Electrical data | |
| Operating voltage | 15...30 VDC |
| No-load current | 35 mA |
| Short-circuit protection | yes |
| Output function | Analog output |
| Voltage output | 0...10 V |
| Mechanical data | |
| Design | Solid shaft |
| Flange type | Synchro flange |
| Flange diameter | Ø 36 mm |
| Shaft Type | Solid shaft |
| Shaft diameter D [mm] | 8 |
| Shaft Length L [mm] | 15 |
| | Shaft with surface |
| 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 ² , 10...2000 Hz |
| Shock resistance (EN 60068-2-27) | 2500 m/s ² , 6 ms |
| Protection class | IP67 |
| Protection class shaft | IP67 |

Accessories

| RCS-19-08-08 | 1545359 | RCS-19-10-08 | 1545357 |
|--|---------|---|---------|
| Bellows coupling, outer diameter: 19 mm, bore diameter: 8 mm/8 mm | | Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/8 mm | |
| | | | |