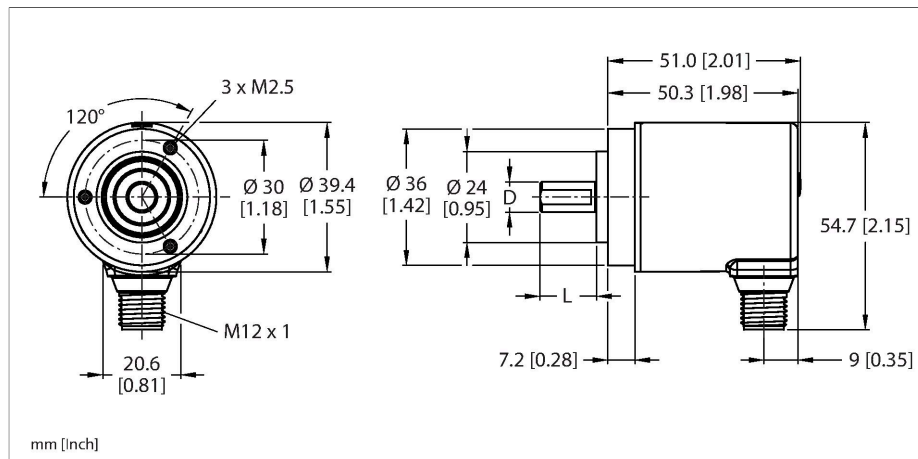


RES-184S6C-9F14B-H1151

Absolute Rotary Encoder - Single-Turn Industrial Line



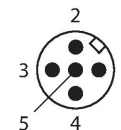
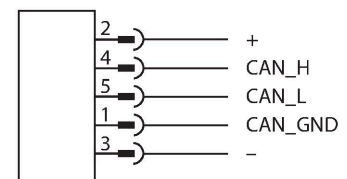
Technical data

| | |
|---|------------------------|
| Type | RES-184S6C-9F14B-H1151 |
| ID | 100026153 |
| Measuring principle | Magnetic |
| General data | |
| Max. Rotational Speed | 4000 rpm |
| Starting torque | < 0.01 Nm |
| Measuring range | 0...360 ° |
| Absolute accuracy | ± 0.015 ° At 25 °C |
| Output type | Absolute singleturn |
| Resolution singleturn | 14 Bit |
| Electrical data | |
| Operating voltage | 10...30 VDC |
| No-load current | 80 mA |
| Short-circuit protection | yes |
| Wire breakage/Reverse polarity protection | yes |
| Communication protocol | SAE J1939 |
| Interface | SAE J1939 |
| Mechanical data | |
| Design | Solid shaft |
| Flange type | Clamping flange |
| Flange diameter | Ø 36 mm |
| Shaft Type | Solid shaft |
| Shaft diameter D [mm] | 6 |
| Shaft Length L [mm] | 12.5 |
| Shaft material | Stainless steel |

Features

- Clamping flange, Ø 36 mm
- Solid shaft, Ø 6 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)
- 10...30 VDC
- SAE J1939
- M12 × 1 male, 5-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/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-19-10-06 | 1545358 | RCS-15-08-06 | 1545361 |
| Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm | | Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm | |
| | | | |
| RCS-15-06-06 | 1545362 | RCS-19-06-06 | 1545360 |
| Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm/6 mm | | Bellows coupling, outer diameter: 19 mm, bore diameter: 6 mm/6 mm | |
| | | | |

Accessories

| Dimension drawing | Type | ID | |
|-------------------|------------|---------|--|
| | RKC5701-5M | 6931034 | Bus cable for CAN (DeviceNet, -CANopen), M12 female connector, straight, cable length: 5 m, jacket material: PUR, anthracite; cULus approval |

Accessories

| Dimension drawing | Type | ID | |
|-------------------|---------------------|-----------|---|
| | RA-MW-200-5.5-DK1-6 | 100038295 | Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm |
| | RA-MW-200-6.5-PS1-6 | 100038296 | Aluminum measuring wheel (smooth PU) for encoders; circumference 0.2 m, width 6.5 mm, D = 6 mm |
| | RA-MW-200-5.5-OR1-6 | 100038298 | Aluminum measuring wheel (O-ring) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm |
| | RA-MW-B0-5.5-DK1-6 | 100038299 | Aluminum measuring wheel (cross knurled) for encoders; circumference 6", width 5.5 mm, D = 6 mm |
| | RA-MW-B0-6.5-PS1-6 | 100038300 | Aluminum measuring wheel (smooth PU) for encoders; circumference 6", width 6.5 mm, D = 6 mm |
| | RA-MW-B0-5.5-OR1-6 | 100038301 | Aluminum measuring wheel (O-ring) for encoders; circumference 6", width 5.5 mm, D = 6 mm |
| | RA-SAB-5-24 | 100038293 | Spring arm for small absolute encoders with a 36-mm flange; recommended contact pressure 5 N; maximum contact pressure 20 N |