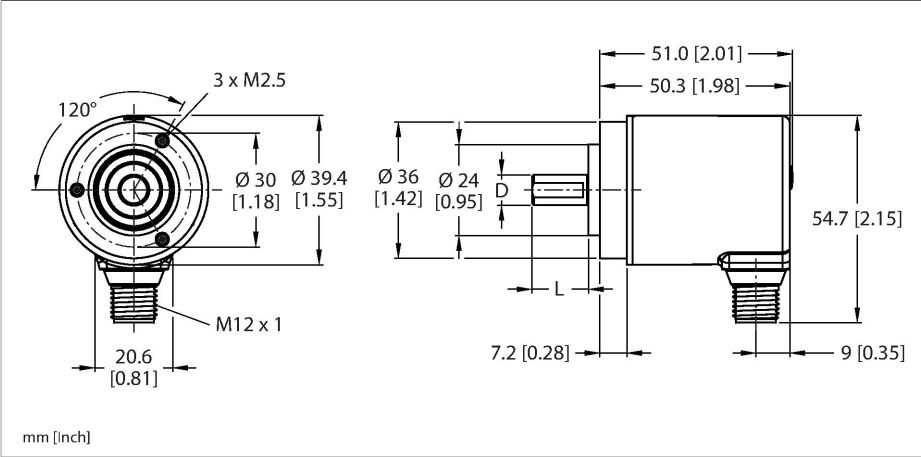


REM-99S8C-5C13S12M-H1181  
Absolute Rotary Encoder - Multiturn  
Industrial Line



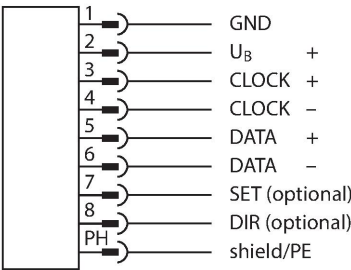
Technical data

|                                           |                          |
|-------------------------------------------|--------------------------|
| Type                                      | REM-99S8C-5C13S12M-H1181 |
| ID                                        | 100011248                |
| Measuring principle                       | Magnetic                 |
| General data                              |                          |
| Max. Rotational Speed                     | 4000 rpm                 |
| Starting torque                           | < 0.01 Nm                |
| Repetition accuracy                       | ± 0.2 ° At 25 °C         |
| Absolute accuracy                         | ± 1 ° At 25 °C           |
| Output type                               | Absolute multiturn       |
| Resolution singleturn                     | 13 Bit                   |
| Resolution multiturn                      | 12 Bit                   |
| Electrical data                           |                          |
| Operating voltage                         | 10...30 VDC              |
| No-load current                           | 40 mA                    |
| Short-circuit protection                  | yes                      |
| Wire breakage/Reverse polarity protection | yes                      |
| Communication protocol                    | SSi                      |
| Output function                           | Binary coded             |
| Mechanical data                           |                          |
| Design                                    | Solid shaft              |
| Flange type                               | Clamping flange          |
| Flange diameter                           | Ø 36 mm                  |
| Shaft Type                                | Solid shaft              |
| Shaft diameter D [mm]                     | 8                        |
| Shaft Length L [mm]                       | 15                       |

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)
- Energy harvesting technology
- 10...30 VDC
- SSI, binary
- M12 × 1 male, 8-pin
- Singleturn, 13-bit resolution
- Multiturn, 12-bit resolution

Wiring diagram



Technical data

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

Accessories

| Dimension drawing | Type           | ID      |                                                                                                                                                                                                                                            |
|-------------------|----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | E-RKC 8T-264-2 | U-04781 | Connection cable, female M12, straight, 8-pin (twisted pairs), shielded, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see <a href="http://www.turck.com">www.turck.com</a> |

