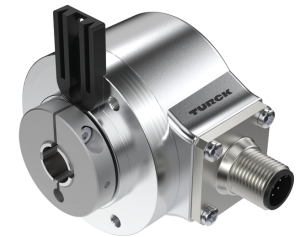
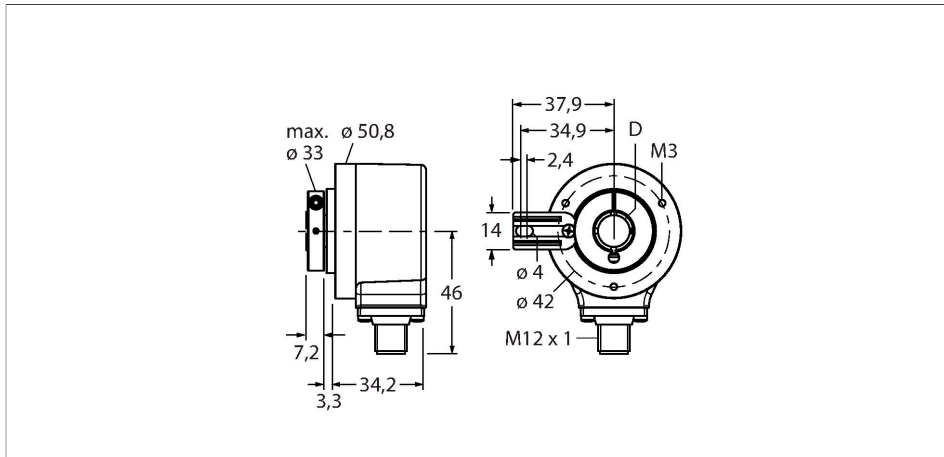


RI-12HA0T-2B1000-H1181

Incremental Encoder

Industrial Line



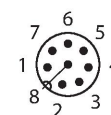
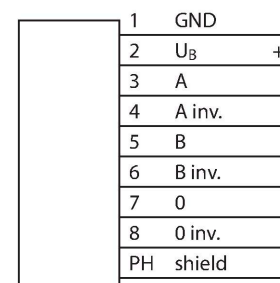
Technical data

| | |
|--|--------------------------------------|
| Type | RI-12HA0T-2B1000-H1181 |
| ID | 1545510 |
| Measuring principle | Optical |
| General data | |
| Max. rotational speed | 6000 rpm |
| Moment of inertia of the rotor | $6 \times 10^{-6} \text{ kgm}^2$ |
| Starting torque | $< 0.05 \text{ Nm}$ |
| Output type | Incremental |
| Resolution incremental | 1000 ppr |
| Electrical data | |
| Operating voltage U_B | 10...30 VDC |
| No-load current | $\leq 100 \text{ mA}$ |
| Output current | $\leq 30 \text{ mA}$ |
| Short-circuit protection | yes |
| Wire break/reverse polarity protection | yes |
| Pulse frequency max. | 300 kHz |
| Signal level high | min. $U_B - 1 \text{ V}$ |
| Signal level low | max. 0.5 V |
| Output function | Push-Pull/HTL, with inverted signals |
| Mechanical data | |
| Flange type | Flange with mounting element |
| Flange diameter | $\varnothing 50.8 \text{ mm}$ |
| Shaft Type | Hollow shaft |

Features

- Flange with torque stop, $\varnothing 50.8 \text{ mm}$
- Hollow shaft, $\varnothing 1/4"$
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP67 on housing and shaft side
- $-40 \dots +85 \text{ }^\circ\text{C}$
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Male connector, M12 x 1, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1000 pulses per revolution

Wiring diagram



Technical data

| | |
|-------------------------------------|-------------------------------------|
| Shaft diameter D (mm) | 6.25 |
| Shaft diameter D | 0.25 in |
| Shaft material | Stainless steel |
| Housing material | Die-cast zinc |
| Electrical connection | Connector, M12 × 1 |
| | 8-pin |
| Axial shaft load | 40 N |
| Radial shaft load | 80 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) | 3000 m/s ² , 6 ms |
| Protection class | IP67 |
| Protection class shaft | IP67 |