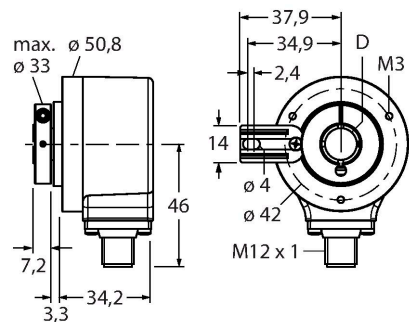


REI-12H10T-2B512-H1181  
Incremental Encoder  
Industrial Line



Technical data

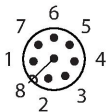
|                                           |                                  |
|-------------------------------------------|----------------------------------|
| Type                                      | REI-12H10T-2B512-H1181           |
| ID                                        | 100010376                        |
| 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                   | 512 ppr                          |
| Electrical data                           |                                  |
| Operating voltage                         | 10...30 VDC                      |
| No-load current                           | 100 mA                           |
| Output current                            | $\leq 30 \text{ mA}$             |
| Short-circuit protection                  | yes                              |
| Wire breakage/Reverse polarity protection | yes                              |
| Pulse frequency max.                      | 300 kHz                          |
| Signal level high                         | min. $U_B - 1 \text{ V}$         |
| Signal level low                          | max. $0.5 \text{ V}$             |
| Output function                           | Push-Pull/HTL, invertable        |
| Mechanical data                           |                                  |
| Design                                    | Hollow shaft                     |
| Flange type                               | Flange with mounting element     |
| Flange diameter                           | $\varnothing 50.8 \text{ mm}$    |
| Shaft Type                                | Hollow shaft                     |
| Shaft diameter D [mm]                     | 10                               |

Features

- Flange with torque stop,  $\varnothing 50.8 \text{ mm}$
- Hollow shaft,  $\varnothing 10 \text{ mm}$
- 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
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12  $\times$  1 male connector, 8-pin
- 512 pulses per revolution

Wiring diagram

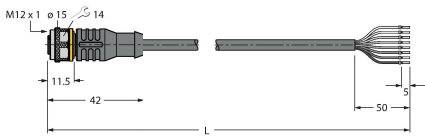
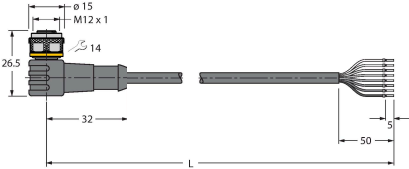
|    |          |
|----|----------|
| 1  | GND      |
| 2  | $U_B$ +  |
| 3  | A        |
| 4  | A inv.   |
| 5  | B        |
| 6  | B inv.   |
| 7  | 0 -      |
| 8  | 0 inv. - |
| PH | shield   |



Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| 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/s², 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 3000 m/s², 6 ms        |
| Protection class                    | IP67                   |
| Protection class shaft              | IP67                   |

Accessories

| Dimension drawing                                                                   | Type        | ID      |                                                                                                                         |
|-------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------|
|  | RKC8T-2/TXL | 6625142 | Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |
|  | WKC8T-2/TXL | 6625145 | Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval   |