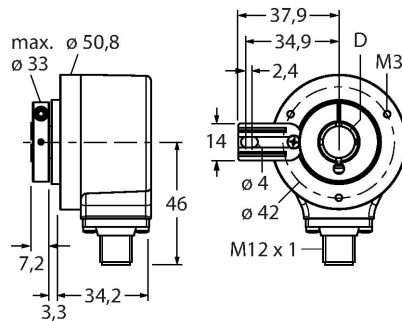


# RI-12I15T-4A500-H1181

## Incremental Encoder

### Industrial Line



#### Technical data

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Type                                   | RI-12I15T-4A500-H1181            |
| ID                                     | 1545498                          |
| Measuring principle                    | Optical                          |
| <b>General data</b>                    |                                  |
| Max. rotational speed                  | 12,000 rpm                       |
| Moment of inertia of the rotor         | $6 \times 10^{-6} \text{ kgm}^2$ |
| Starting torque                        | < 0.05 Nm                        |
| Output type                            | Incremental                      |
| Resolution incremental                 | 500 ppr                          |
| <b>Electrical data</b>                 |                                  |
| Operating voltage $U_s$                | 5 VDC                            |
| No-load current                        | $\leq 90 \text{ mA}$             |
| Output current                         | $\leq 20 \text{ mA}$             |
| Short-circuit protection               | yes                              |
| Wire break/reverse polarity protection | no                               |
| Pulse frequency max.                   | 300 kHz                          |
| Signal level high                      | min. 2.5 V                       |
| Signal level low                       | max. 0.5 V                       |
| Output function                        | RS422, with inverted signals     |
| <b>Mechanical data</b>                 |                                  |
| 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,  $\varnothing 15 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5 VDC
- Male connector, M12 x 1 , 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 500 pulses per revolution

## Technical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Shaft diameter D (mm)               | 15                                  |
| Shaft Length L [mm]                 | 20                                  |
| 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 <sup>2</sup> , 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 3000 m/s <sup>2</sup> , 6 ms        |
| Protection class                    | IP67                                |
| Protection class shaft              | IP65                                |