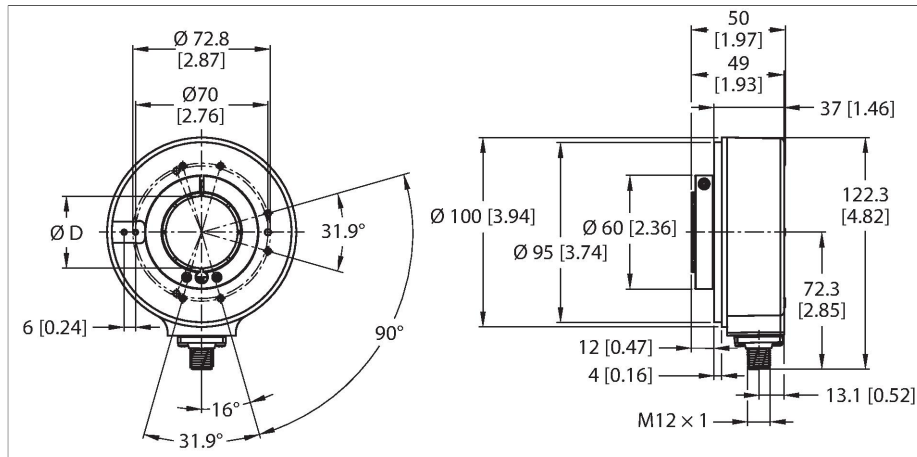


# REI-43H42S-2B600-H1181

## Incremental Encoder

### Industrial Line



#### Features

- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 42 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40 ... +80 °C
- Max. 6000 rpm (at 60 °C: 2500 rpm)
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 600 pulses per revolution

#### Technical data

|                                           |                                         |
|-------------------------------------------|-----------------------------------------|
| Type                                      | REI-43H42S-2B600-H1181                  |
| ID                                        | 100011482                               |
| Measuring principle                       | Optical                                 |
| <b>General data</b>                       |                                         |
| Max. Rotational Speed                     | 6000 rpm                                |
| Moment of inertia of the rotor            | 220 × 10 <sup>-6</sup> kgm <sup>2</sup> |
| Starting torque                           | < 0.2 Nm                                |
| Output type                               | Incremental                             |
| Resolution, incremental                   | 600 ppr                                 |
| <b>Electrical data</b>                    |                                         |
| Operating voltage                         | 10...30 VDC                             |
| No-load current                           | 100 mA                                  |
| Output current                            | ≤ 30 mA                                 |
| Short-circuit protection                  | yes                                     |
| Wire breakage/Reverse polarity protection | yes                                     |
| Pulse frequency max.                      | 300 kHz                                 |
| Signal level high                         | min. U <sub>B</sub> - 3 V               |
| Signal level low                          | max. 2.5 V                              |
| Output function                           | Push-Pull/HTL, invertable               |
| <b>Mechanical data</b>                    |                                         |
| Design                                    | Hollow shaft                            |
| Flange type                               | Flange without mounting element         |
| Flange diameter                           | Ø 100 mm                                |
| Shaft Type                                | Hollow shaft                            |
| Shaft diameter D [mm]                     | 42                                      |

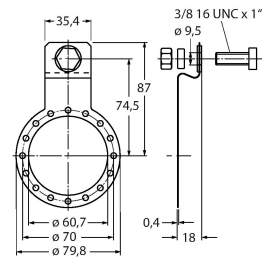
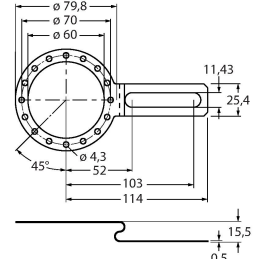
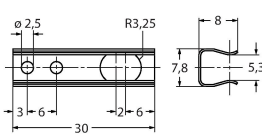
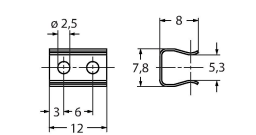
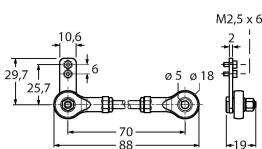
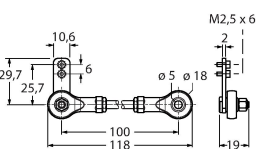
#### Wiring diagram



Technical data

|                                     |                               |
|-------------------------------------|-------------------------------|
| Shaft material                      | Stainless steel               |
| Housing material                    | Die-cast zinc                 |
| Electrical connection               | Connector, M12 × 1            |
|                                     | 8-pin                         |
| Environmental conditions            |                               |
| Ambient temperature                 | -40...+80 °C                  |
| Vibration resistance (EN 60068-2-6) | 10 g (100 m/s²), 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 200 g (2000 m/s²), 6 ms       |
| Protection class                    | IP65                          |
| Protection class shaft              | IP65                          |

Accessories

|        |         |                                                                                                                                                                                                                                |        |         |                                                                                                                                                                                                                                                            |
|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RME-5  | 1544616 |  <p>Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play</p>                | RME-6  | 1544617 |  <p>Stainless steel mounting panel for hollow shaft encoders, reference diameter 104...206 mm, for applications with fixing points on adjustable reference diameter</p> |
| RME-10 | 1544621 |  <p>Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play</p>            | RME-11 | 1544622 |  <p>Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space</p>                                 |
| RME-15 | 1544626 |  <p>Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable</p> | RME-16 | 1544627 |  <p>Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable</p>                           |

