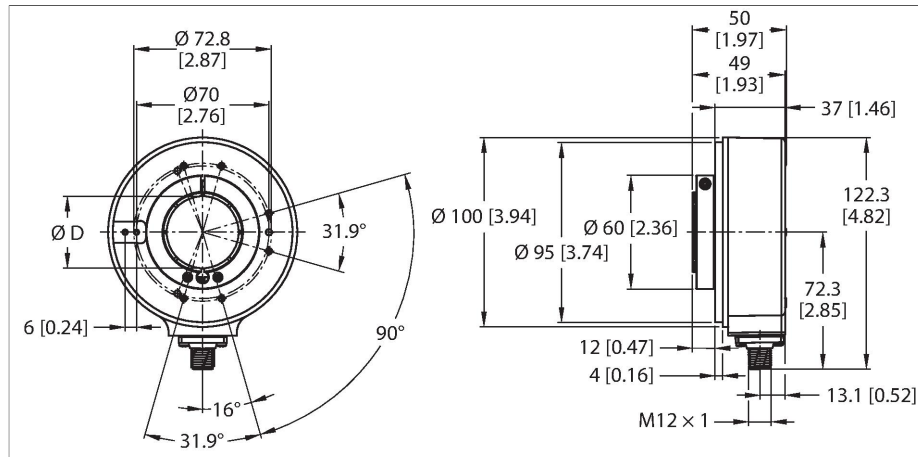


# REI-43H38S-4C50-H1181

## Incremental Encoder

### Industrial Line



#### Features

- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 38 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
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 50 pulses per revolution

#### Technical data

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Type                           | REI-43H38S-4C50-H1181                   |
| ID                             | 100011443                               |
| 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        | 50 ppr                                  |
| <b>Electrical data</b>         |                                         |
| Operating voltage              | 10...30 VDC                             |
| No-load current                | 120 mA                                  |
| Output current                 | ≤ 20 mA                                 |
| Short-circuit protection       | yes                                     |
| Pulse frequency max.           | 300 kHz                                 |
| Signal level high              | min. 2.5 V                              |
| Signal level low               | max. 0.5 V                              |
| Output function                | RS422/TTL, 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]          | 38                                      |
| Shaft material                 | Stainless steel                         |
| Housing material               | Die-cast zinc                           |

#### Wiring diagram



Technical data

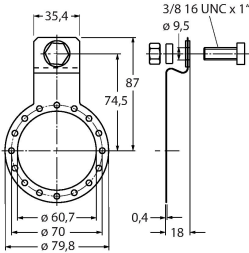
|                                     |                               |
|-------------------------------------|-------------------------------|
| Electrical connection               | Connector, M12 × 1            |
|                                     | 8-pin                         |
| Environmental 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                          |

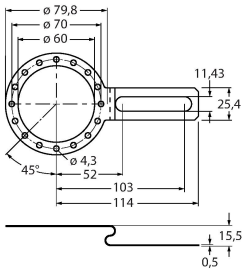
Accessories

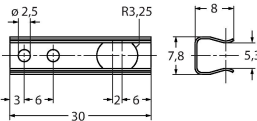
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|---------------------------------------------------|---------|
| RSA-7                                             | 1544808 |
| Inlay, outer diameter 38 mm, inner diameter 12 mm |         |

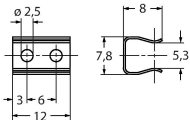
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|---------------------------------------------------|---------|
| RSA-11                                            | 1545469 |
| Inlay, outer diameter 38 mm, inner diameter 16 mm |         |

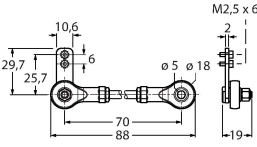
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|---------------------------------------------------|---------|
| RSA-10                                            | 1545465 |
| Inlay, outer diameter 38 mm, inner diameter 25 mm |         |

|                                                                                                                                                                                                           |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| RME-5                                                                                                                                                                                                     | 1544616 |
|  Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play |         |

|                                                                                                                                                                                                                                                     |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| RME-6                                                                                                                                                                                                                                               | 1544617 |
|  Stainless steel mounting panel for hollow shaft encoders, reference diameter 104...206 mm, for applications with fixing points on adjustable reference diameter |         |

|                                                                                                                                                                                                               |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| RME-10                                                                                                                                                                                                        | 1544621 |
|  Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play |         |

|                                                                                                                                                                                                                    |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| RME-11                                                                                                                                                                                                             | 1544622 |
|  Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space |         |

|                                                                                                                                                                                                                          |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| RME-15                                                                                                                                                                                                                   | 1544626 |
|  Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable |         |

