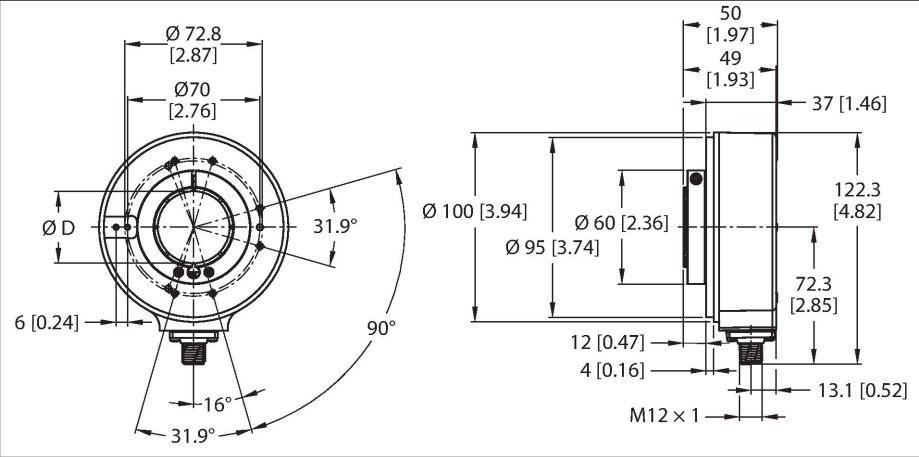


REI-43H40S-4C600-H1181  
Incremental Encoder  
Industrial Line



Technical data

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Type                           | REI-43H40S-4C600-H1181                  |
| ID                             | 100011470                               |
| Measuring principle            | Optical                                 |
| General data                   |                                         |
| 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                                 |
| Electrical data                |                                         |
| 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                   |
| Mechanical data                |                                         |
| Design                         | Hollow shaft                            |
| Flange type                    | Flange without mounting element         |
| Flange diameter                | Ø 100 mm                                |
| Shaft Type                     | Hollow shaft                            |
| Shaft diameter D [mm]          | 40                                      |
| Shaft material                 | Stainless steel                         |
| Housing material               | Die-cast zinc                           |

Features

- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 40 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
- 600 pulses per revolution

Wiring diagram

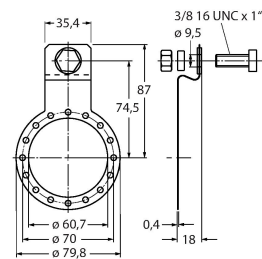


Technical data

|                                     |                               |
|-------------------------------------|-------------------------------|
| 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

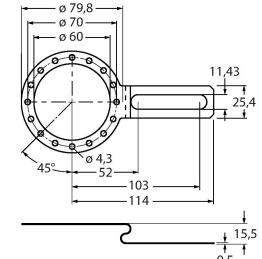
RME-51544616



Technical drawing of the RME-5 stainless steel mounting panel. It shows a circular panel with a central hole of diameter 60.7 mm and an outer diameter of 79.8 mm. The panel has a thickness of 18 mm. A 3/8 16 UNC x 1" screw is shown passing through the panel. Dimensions include 35.4 mm for the top hole offset, 87 mm for the top hole diameter, 74.5 mm for the top hole offset, 0.4 mm for the panel thickness, and 18 mm for the panel thickness.

Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play

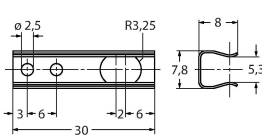
RME-61544617



Technical drawing of the RME-6 stainless steel mounting panel. It shows a circular panel with a central hole of diameter 60 mm and an outer diameter of 79.8 mm. The panel has a thickness of 18 mm. A 3/8 16 UNC x 1" screw is shown passing through the panel. Dimensions include 79.8 mm for the outer diameter, 60 mm for the inner diameter, 11.43 mm for the top hole offset, 25.4 mm for the top hole diameter, 4.3 mm for the top hole offset, 52 mm for the top hole diameter, 103 mm for the top hole offset, 114 mm for the top hole diameter, 15.5 mm for the panel thickness, and 0.5 mm for the panel thickness.

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

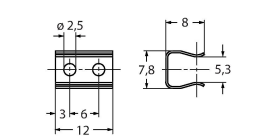
RME-101544621



Technical drawing of the RME-10 stainless steel mounting element. It shows a rectangular element with a central hole of diameter 6 mm and a width of 30 mm. The element has a thickness of 18 mm. Dimensions include 2.5 mm for the top hole offset, 8 mm for the top hole diameter, 7.8 mm for the top hole offset, 5.3 mm for the top hole diameter, 3 mm for the top hole offset, 6 mm for the top hole diameter, and 30 mm for the element width.

Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play

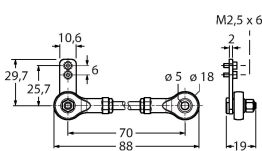
RME-111544622



Technical drawing of the RME-11 stainless steel mounting element. It shows a rectangular element with a central hole of diameter 6 mm and a width of 12 mm. The element has a thickness of 18 mm. Dimensions include 2.5 mm for the top hole offset, 8 mm for the top hole diameter, 7.8 mm for the top hole offset, 5.3 mm for the top hole diameter, 3 mm for the top hole offset, 6 mm for the top hole diameter, and 12 mm for the element width.

Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space

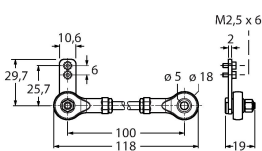
RME-151544626



Technical drawing of the RME-15 metal arm bracket. It shows a bracket with a central hole of diameter 6 mm and a width of 70 mm. The bracket has a thickness of 18 mm. Dimensions include 10.6 mm for the top hole offset, 29.7 mm for the top hole diameter, 25.7 mm for the top hole offset, 6 mm for the top hole diameter, 5 mm for the top hole offset, 18 mm for the top hole diameter, 70 mm for the bracket width, 88 mm for the bracket width, and 19 mm for the bracket width.

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

RME-161544627



Technical drawing of the RME-16 metal arm bracket. It shows a bracket with a central hole of diameter 6 mm and a width of 100 mm. The bracket has a thickness of 18 mm. Dimensions include 10.6 mm for the top hole offset, 29.7 mm for the top hole diameter, 25.7 mm for the top hole offset, 6 mm for the top hole diameter, 5 mm for the top hole offset, 18 mm for the top hole diameter, 100 mm for the bracket width, 118 mm for the bracket width, and 19 mm for the bracket width.

Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

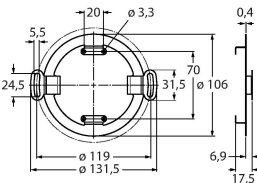
RME-171544628

Metal arm bracket, for hollow shaft encoders, length 150 mm; for applications with little axial and radial play; flexibly adjustable



RME-181544629

Stainless steel stator coupling for hollow shaft encoders, reference diameter 119 mm, for highly dynamic applications with axial and radial play



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   |