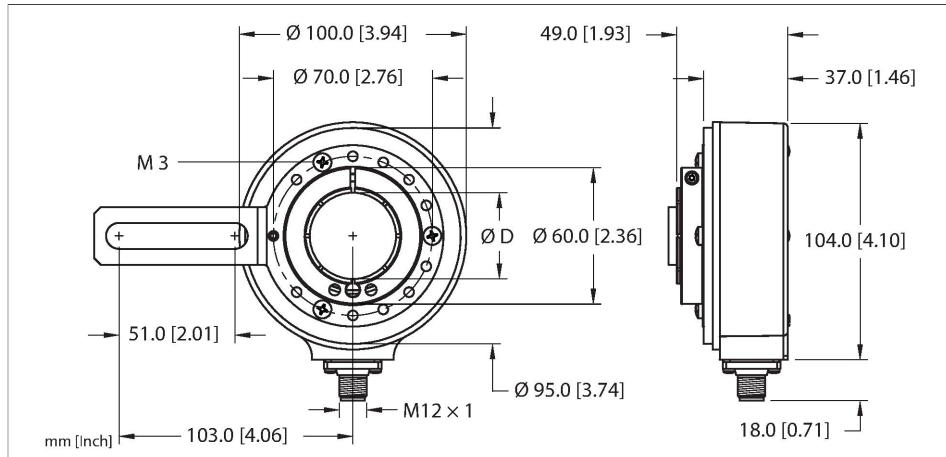


# RI-43HA8S8-2F1000-H1181

## Incremental Hollow Shaft Rotary Encoder

### Industrial Line



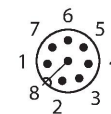
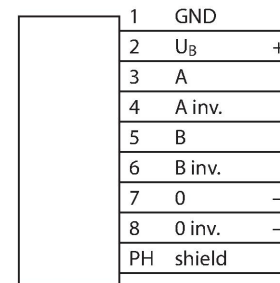
### Features

- Flange without mounting element, Ø 100mm
- Hollow shaft, Ø 1-1/4"
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on the shaft side
- -40...+80°C
- max. 6000 rev / min
- 5...30 VDC
- Male connector, M12 x 1 , 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1000 pulses per revolution

### Technical data

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Type                           | RI-43HA8S8-2F1000-H1181                       |
| ID                             | 1545567                                       |
| Measuring principle            | Optical                                       |
| General data                   |                                               |
| Max. Rotational Speed          | 6000 rpm                                      |
| Moment of inertia of the rotor | $220 \times 10^{-6} \text{ kgm}^2$            |
| Starting torque                | < 0.2 Nm                                      |
| Output type                    | Incremental                                   |
| Resolution incremental         | 1000 ppr                                      |
| Electrical data                |                                               |
| Operating voltage $U_B$        | 5...30 VDC                                    |
| No-load current                | $\leq 100 \text{ mA}$                         |
| Output current                 | $\leq 20 \text{ mA}$                          |
| Short-circuit protection       | yes                                           |
| Pulse frequency max.           | 300 kHz                                       |
| Signal level high              | min. $U_B - 2 \text{ V}$                      |
| Signal level low               | max. 0.5 V                                    |
| Output function                | 8-wire, Push-Pull 7272, with inverted signals |
| Mechanical data                |                                               |
| Design                         | Hollow shaft                                  |
| Flange type                    | Flange with mounting element                  |
| Flange diameter                | Ø 100 mm                                      |

### Wiring diagram



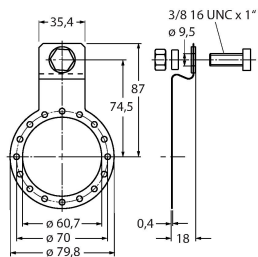
## Technical data

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Shaft Type                          | Blind hole shaft                           |
| Shaft diameter D (mm)               | 31.75                                      |
| Shaft diameter D                    | 1.25 in                                    |
| Shaft material                      | Stainless steel                            |
| Housing material                    | Die-cast zinc                              |
| Electrical connection               | Connector, M12 × 1                         |
|                                     | 8-pin                                      |
| Axial shaft load                    | 100 N                                      |
| Radial shaft load                   | 200 N                                      |
| <b>Environmental conditions</b>     |                                            |
| Ambient temperature                 | -40...+80 °C                               |
| Vibration resistance (EN 60068-2-6) | 10 g (100 m/s <sup>2</sup> ), 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 200 g (1000 m/s <sup>2</sup> ), 6 ms       |
| Protection class                    | IP65                                       |
| Protection class shaft              | IP65                                       |
| Included in delivery                | Mounting arm, long                         |

## Accessories

### RME-5

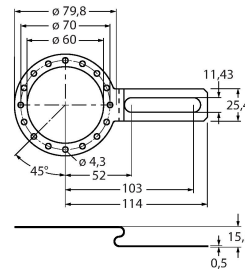
1544616



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

### RME-6

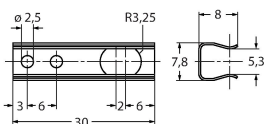
1544617



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

### RME-10

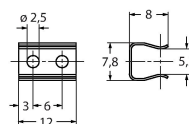
1544621



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

### RME-11

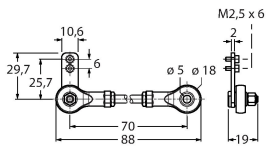
1544622



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

RME-15

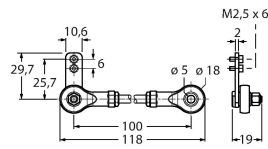
1544626



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

RME-16

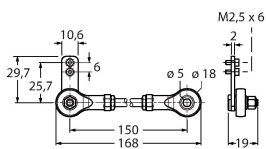
1544627



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

RME-17

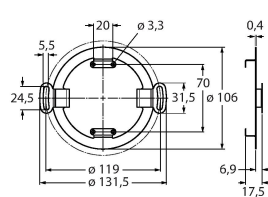
1544628



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

RME-18

1544629



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