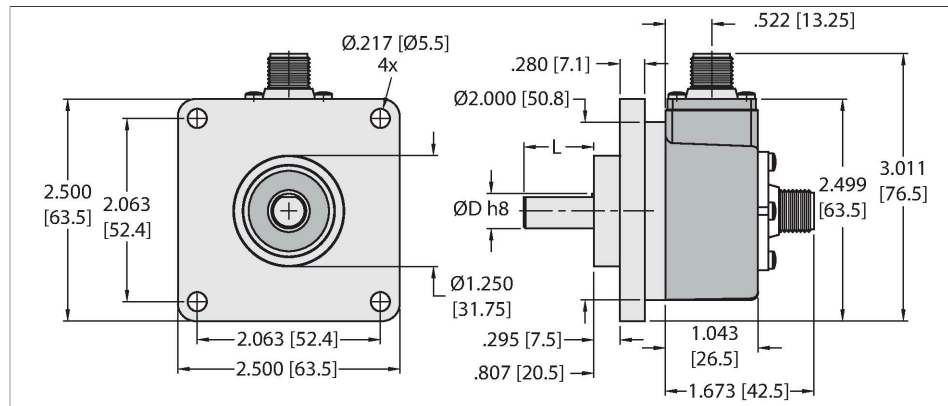


# RI-10SA1R-2B1000-H1181

## Incremental Shaft Encoder

### Industrial Line



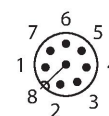
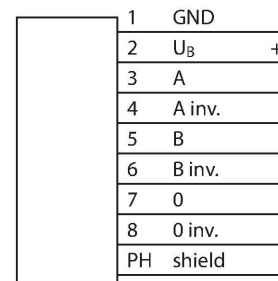
## Features

- Square flange, Ø 63.5 mm
- Solid shaft, Ø 3/8" x 7/8"
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...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-10SA1R-2B1000-H1181               |
| ID                                     | 1545662                              |
| Measuring principle                    | Optical                              |
| <b>General data</b>                    |                                      |
| Max. Rotational Speed                  | 6000 rpm                             |
| Moment of inertia of the rotor         | $1.8 \times 10^{-6} \text{ kgm}^2$   |
| Starting torque                        | < 0.05 Nm                            |
| Output type                            | Incremental                          |
| Resolution incremental                 | 1000 ppr                             |
| <b>Electrical data</b>                 |                                      |
| Operating voltage $U_B$                | 10...30 VDC                          |
| No-load current                        | $\leq 100 \text{ mA}$                |
| Output current                         | $\leq 30 \text{ mA}$                 |
| Short-circuit protection               | yes                                  |
| Wire break/reverse polarity protection | yes                                  |
| Pulse frequency max.                   | 300 kHz                              |
| Signal level high                      | min. $U_B - 1 \text{ V}$             |
| Signal level low                       | max. 0.5 V                           |
| Output function                        | Push-Pull/HTL, with inverted signals |
| <b>Mechanical data</b>                 |                                      |
| Flange type                            | Rectangular flange                   |
| Flange diameter                        | Ø 63.5 mm                            |
| Shaft Type                             | Solid shaft                          |
| Shaft diameter D                       | 0.375 in                             |

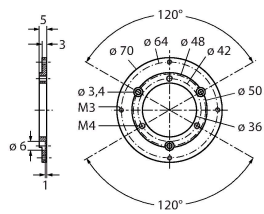
## Wiring diagram





## RFA-8

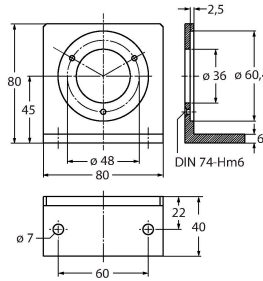
1544637



Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 4 mm, adapts to Ø 70 mm flange

## RFA-9

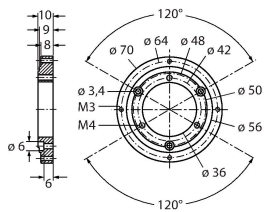
1544638



Aluminium angle flange for solid shaft encoders with Ø 58 mm clamping flange

## RFA-11

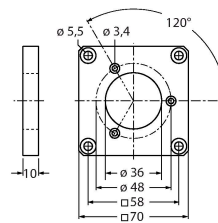
1544640



Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 10 mm, adapts to Ø 70 mm flange

## RFA-12

1544641



Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 70 mm; 10 mm thick