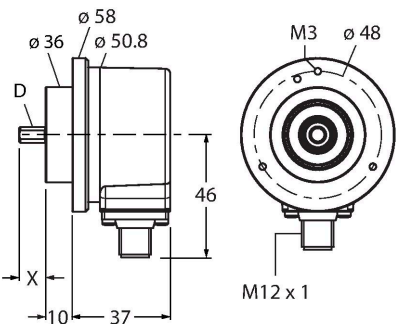


REI-10S6C-2B360-H1181  
Incremental Encoder  
Industrial Line



Technical data

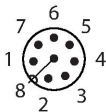
|                                           |                                         |
|-------------------------------------------|-----------------------------------------|
| Type                                      | REI-10S6C-2B360-H1181                   |
| ID                                        | 100010213                               |
| Measuring principle                       | Optical                                 |
| General data                              |                                         |
| Max. Rotational Speed                     | 6000 rpm                                |
| Moment of inertia of the rotor            | 1.8 × 10 <sup>-5</sup> kgm <sup>2</sup> |
| Starting torque                           | < 0.05 Nm                               |
| Output type                               | Incremental                             |
| Resolution, incremental                   | 360 ppr                                 |
| Electrical data                           |                                         |
| 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> - 1 V               |
| Signal level low                          | max. 0.5 V                              |
| Output function                           | Push-Pull/HTL, invertable               |
| Mechanical data                           |                                         |
| Design                                    | Solid shaft                             |
| Flange type                               | Clamping flange                         |
| Flange diameter                           | Ø 58 mm                                 |
| Shaft Type                                | Solid shaft                             |
| Shaft diameter D [mm]                     | 6                                       |

Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 6 mm × 10 mm
- 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
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 360 pulses per revolution

Wiring diagram

|    |                  |
|----|------------------|
| 1  | GND              |
| 2  | U <sub>B</sub> + |
| 3  | A                |
| 4  | A inv.           |
| 5  | B                |
| 6  | B inv.           |
| 7  | 0 -              |
| 8  | 0 inv. -         |
| PH | shield           |



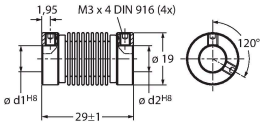
Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Shaft Length L [mm]                 | 10                     |
| Shaft material                      | Stainless steel        |
| Housing material                    | Die-cast zinc          |
| Electrical connection               | Connector, M12 × 1     |
|                                     | 8-pin                  |
| Axial shaft load                    | 50 N                   |
| Radial shaft load                   | 100 N                  |
| Environmental conditions            |                        |
| Ambient temperature                 | -40...+85 °C           |
| Vibration resistance (EN 60068-2-6) | 300 m/s², 10...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 3000 m/s², 6 ms        |
| Protection class                    | IP67                   |
| Protection class shaft              | IP67                   |

Accessories

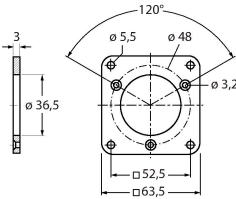
RCS-19-10-06 1545358

Bellows coupling, outer diameter:  
19 mm, bore diameter: 10 mm/6 mm



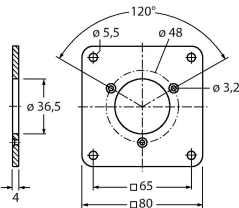
RFA-2 1544631

Aluminium flange adapter,  
rectangular, for solid shaft encoders  
with clamping flange; edge length  
63.5 mm; 3 mm thick



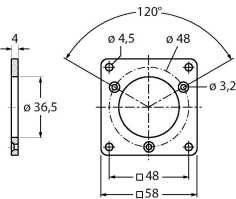
RFA-13 1544642

Aluminium flange adapter,  
rectangular, for solid shaft encoders  
with clamping flange; edge length 80  
mm; 4 mm thick



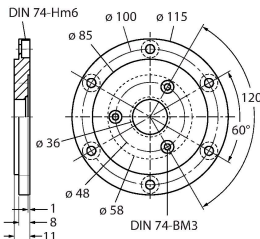
RFA-1 1544630

Aluminium flange adapter,  
rectangular, for solid shaft encoders  
with clamping flange; edge length 58  
mm; 4 mm thick



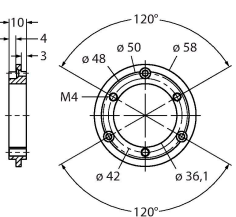
RFA-4 1544633

Euro flange – aluminium flange  
adapter for solid shaft encoders, Ø  
115 mm; reference diameter 100 mm;  
adapts 58 mm clamping flange to  
Euro flange

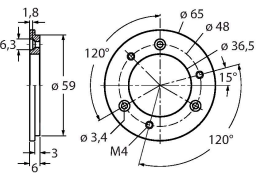


RFA-6 1544635

Aluminium flange adapter for solid  
shaft encoders with clamping flange,  
Ø 58 mm; adapts clamping flange to  
synchro flange

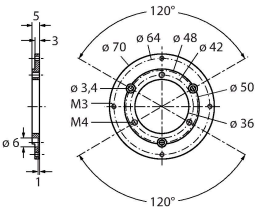


RFA-7 1544636



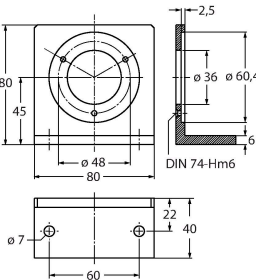
Aluminium flange adapter for solid shaft encoders, Ø 65 mm; adapts to Ø 65 mm flange and 48 mm reference diameter

RFA-8 1544637



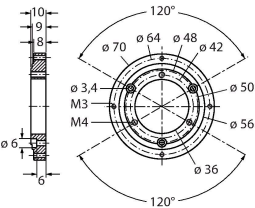
Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 4 mm, adapts to Ø 70 mm flange

RFA-9 1544638



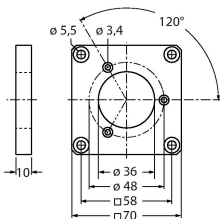
Aluminium angle flange for solid shaft encoders with Ø 58 mm clamping flange

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

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   |