

REI-10S6C-4B4096-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-10S6C-4B4096-H1181
ID	100010259
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-5} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution, incremental	4096 ppr
Electrical data	
Operating voltage	5...30 VDC
No-load current	90 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity 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	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)
- 5...30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 4096 pulses per revolution

Wiring diagram

1	GND
2	U _B +
3	A
4	A inv.
5	B
6	B inv.
7	0 -
8	0 inv. -
PH	shield



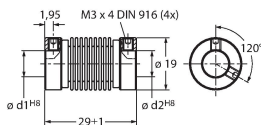
Technical data

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/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP67

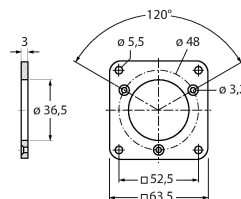
Accessories

RCS-19-10-06
1545358

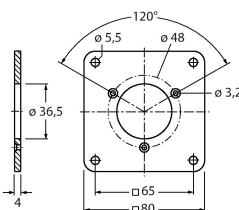
Bellows coupling, outer diameter:
19 mm, bore diameter: 10 mm/6 mm


RFA-2
1544631

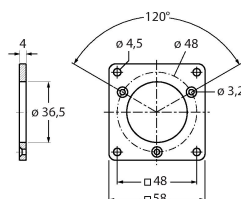
Aluminium flange adapter,
rectangular, for solid shaft encoders
with clamping flange; edge length
63.5 mm; 3 mm thick


RFA-13
1544642

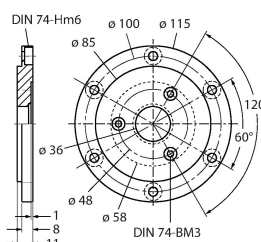
Aluminium flange adapter,
rectangular, for solid shaft encoders
with clamping flange; edge length 80
mm; 4 mm thick


RFA-1
1544630

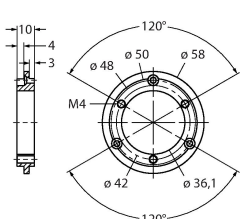
Aluminium flange adapter,
rectangular, for solid shaft encoders
with clamping flange; edge length 58
mm; 4 mm thick


RFA-4
1544633

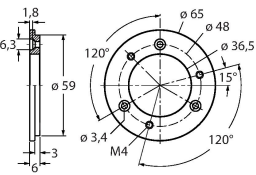
Euro flange – aluminium flange
adapter for solid shaft encoders, Ø
115 mm; reference diameter 100 mm;
adapts 58 mm clamping flange to
Euro flange


RFA-6
1544635

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

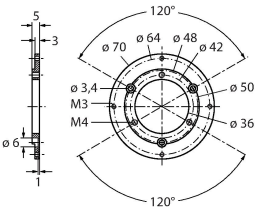


RFA-7 1544636



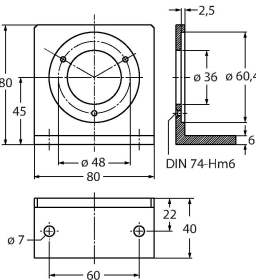
Aluminium flange adapter for solid shaft encoders, Ø 65 mm; adapts to Ø 65 mm flange and 48 mm reference diameter

RFA-8 1544637



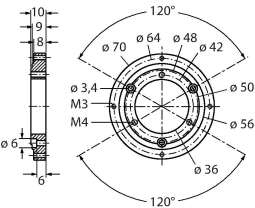
Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 4 mm, adapts to Ø 70 mm flange

RFA-9 1544638



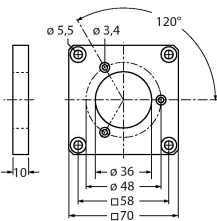
Aluminium angle flange for solid shaft encoders with Ø 58 mm clamping flange

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