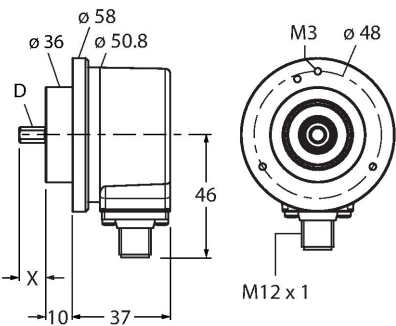


REI-10S6C-2B4096-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-10S6C-2B4096-H1181
ID	100010220
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	$< 0.05 \text{ Nm}$
Output type	Incremental
Resolution incremental	4096 ppr
Electrical data	
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, invertable
Mechanical data	
Flange type	Clamping flange
Flange diameter	$\varnothing 58 \text{ mm}$
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	10
Shaft material	Stainless steel

Features

- Clamping flange, $\varnothing 58 \text{ mm}$
- Solid shaft, $\varnothing 6 \text{ mm} \times 10 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- $-40 \dots +85 \text{ }^\circ\text{C}$
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12 $\times$ 1 male connector, 8-pin
- 4096 pulses per revolution

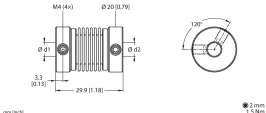
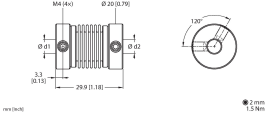
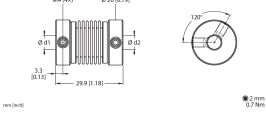
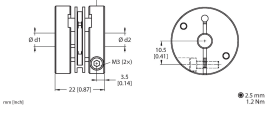
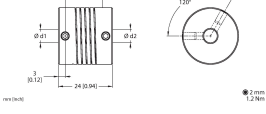
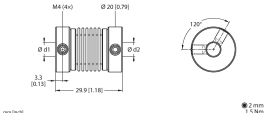
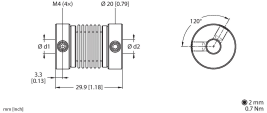
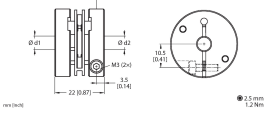
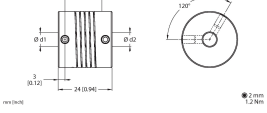
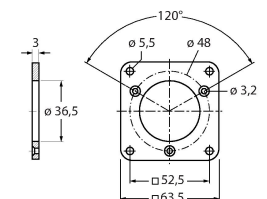
Wiring diagram

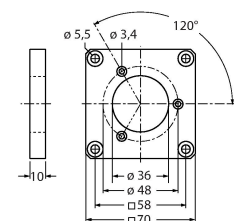
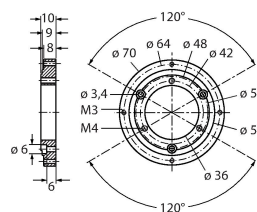
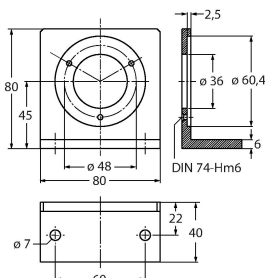
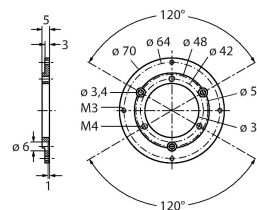
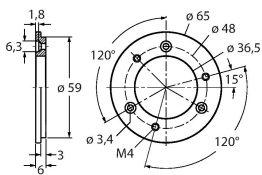
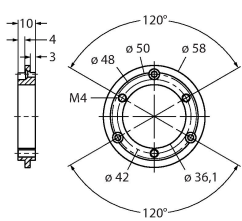
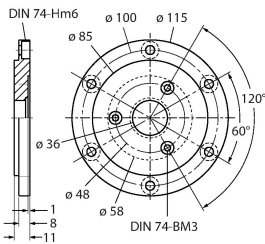
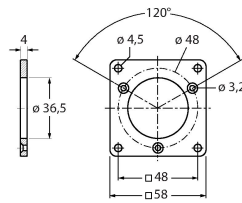
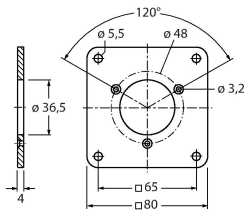


Technical data

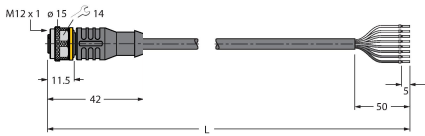
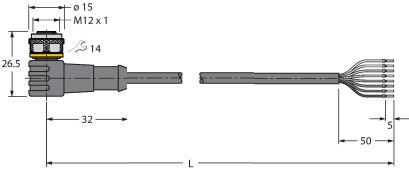
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	50 N
Radial shaft load	100 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² , 6 ms
Protection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

Accessories

RA-BC-20-06-06  rev 1/06/15	100048777 Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 6 mm
RA-BC-20-06-10  rev 1/06/15	100048779 Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 10 mm
RA-BC-E-20-06-10  rev 1/06/15	100048786 Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 10 mm
RA-SDC-30-06-06  rev 1/06/15	100048790 Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 6 mm
RA-SDC-30-06-10  rev 1/06/15	100048795 Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 10 mm
RA-BC-20-06-08  rev 1/06/15	100048778 Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 8 mm
RA-BC-E-20-06-06  rev 1/06/15	100048785 Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 6 mm
RA-SDC-30-06-10  rev 1/06/15	100048791 Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 10 mm
RA-HC-25-06-06  rev 1/06/15	100048794 Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 6 mm
RFA-2  rev 1/06/15	1544631 Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 63.5 mm; 3 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