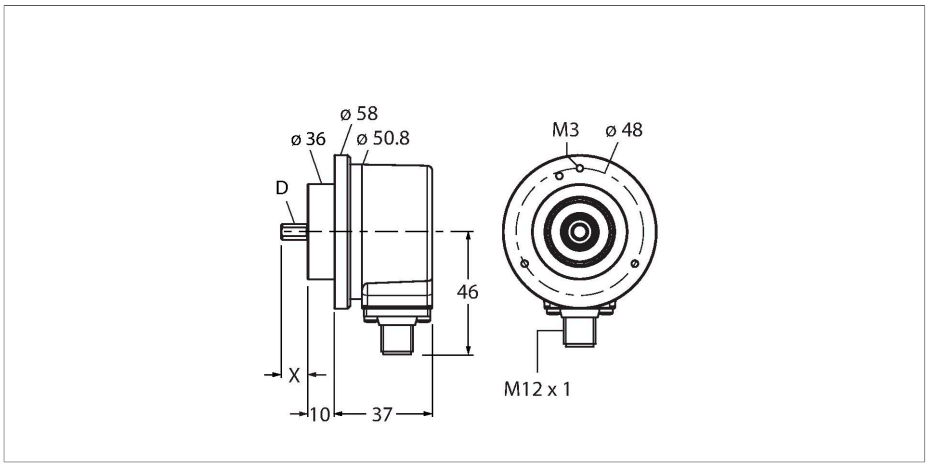
REI-E-113T10C-4B5000-H1181
Incremental Encoder
Efficiency Line



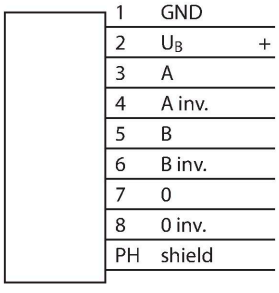
Technical data

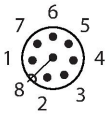
Type	REI-E-113T10C-4B5000-H1181
ID	100011635
Measuring principle	Optical
General data	
Max. Rotational Speed	4500 rpm
Moment of inertia of the rotor	1.8 × 10^{-6} kgm²
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution incremental	5000 ppr
Electrical data	
Operating voltage U_B	5…30 VDC
No-load current	≤ 90 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/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	
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20
Shaft material	Stainless steel

Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- -20…+70 °C
- Max. 4500 rpm (continuous operation 3000 rpm)
- 5…30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 5000 pulses per revolution

Wiring diagram



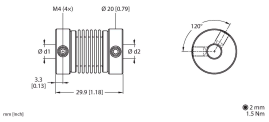


Technical data

Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-20…+70 °C
Vibration resistance (EN 60068-2-6)	100 m/s², 10…2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class	IP64
Protection class shaft	IP64

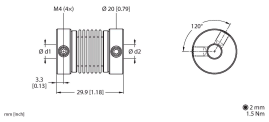
Accessories

RA-BC-20-06-10 100048779



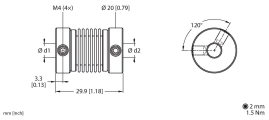
Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 10 mm

RA-BC-20-08-10 100048781



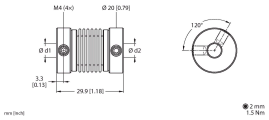
Bellows coupling with aluminum hub Ø 20 mm; d1 = 8 mm, d2 = 10 mm

RA-BC-20-10-10 100048782



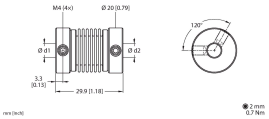
Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 10 mm

RA-BC-20-10-12 100048783



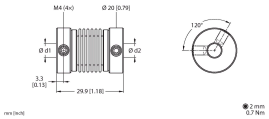
Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 12 mm

RA-BC-E-20-06-10 100048786



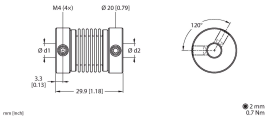
Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 10 mm

RA-BC-E-20-10-10 100048787



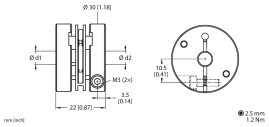
Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 10 mm

RA-BC-E-20-10-12 100048788



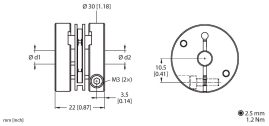
Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 12 mm

RA-SDC-30-10-10 100048792



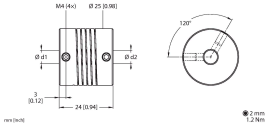
Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 10 mm

RA-SDC-30-10-12 100048793



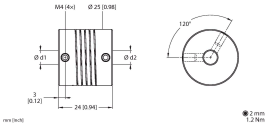
Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 12 mm

RA-HC-25-10-10 100048796



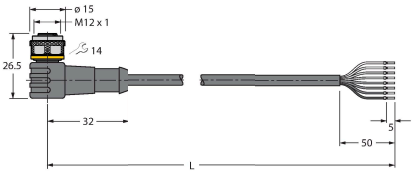
Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 10 mm

RA-HC-25-10-12 100048797

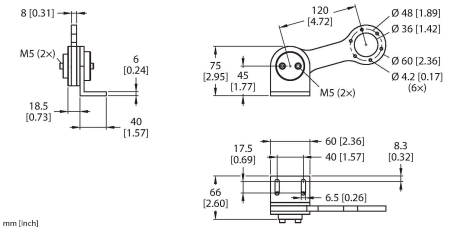
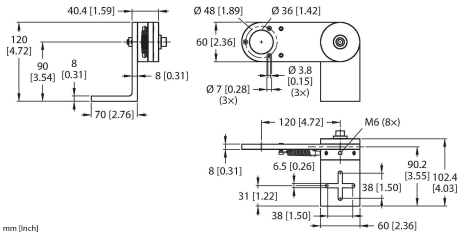
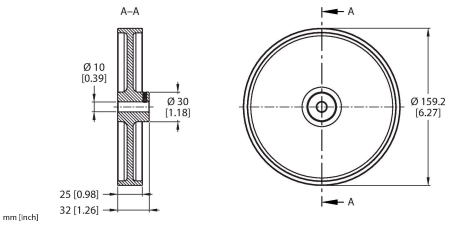
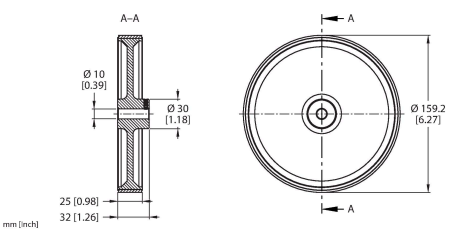


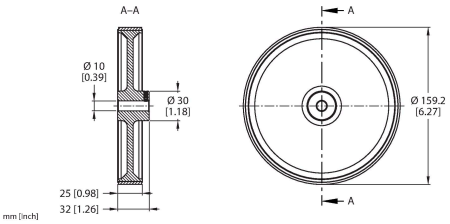
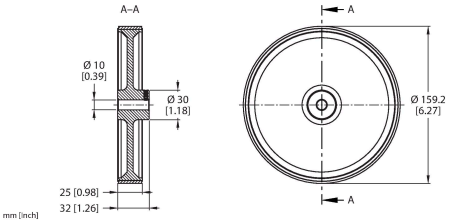
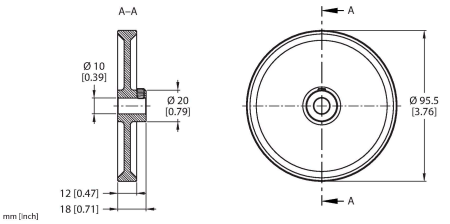
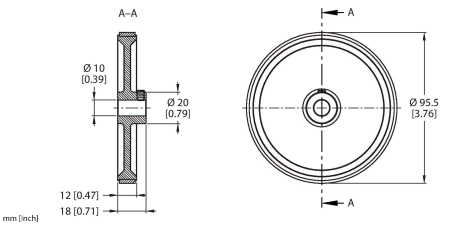
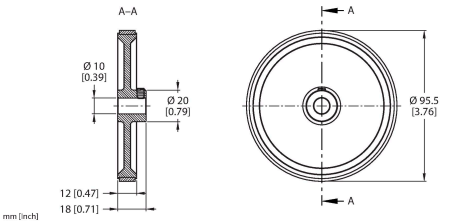
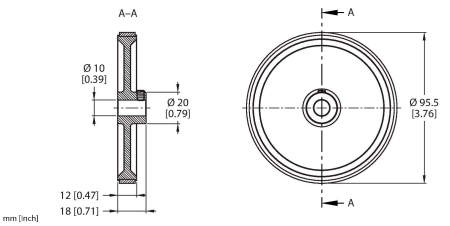
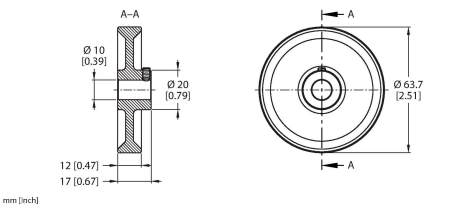
Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 12 mm

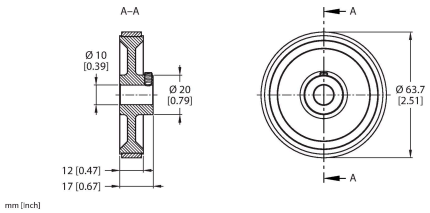
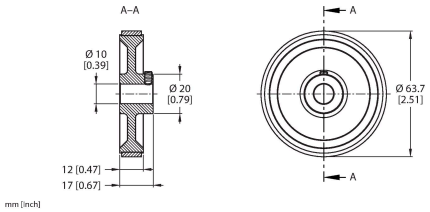
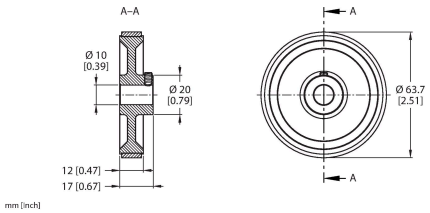
Accessories

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

Accessories

Dimension drawing	Type	ID	
	RA-SAB-15-36	100038251	Spring arm for encoders with a 58-mm flange; recommended contact pressure 15 N; maximum contact pressure 30 N
	RA-SAB-30-36	100038294	Spring arm for encoders with a 58-mm flange; recommended contact pressure 30 N; maximum contact pressure 40 N
	RA-MW-500-25-DK1-10	100038314	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm
	RA-MW-500-25-PS1-10	100038315	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm

Dimension drawing	Type	ID	
	RA-MW-500-25-RT1-10	100038316	Aluminum measuring wheel (studded PU) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm
	RA-MW-500-25-PC1-10	100038317	Aluminum measuring wheel (grooved PU) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm
	RA-MW-300-12-DK1-10	100038306	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.3 m, width 12 mm, D = 10 mm
	RA-MW-300-12-PS1-10	100038307	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.3 m, width 12 mm, D = 10 mm
	RA-MW-300-12-RT1-10	100038308	Aluminum measuring wheel (studded PU) for encoders; circumference 0.3 m, width 12 mm, D = 10 mm
	RA-MW-300-12-PC1-10	100038309	Aluminum measuring wheel (grooved PU) for encoders; circumference 0.3 m, width 12 mm, D = 10 mm
	RA-MW-200-12-DK1-10	100038302	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 12 mm, D = 10 mm

Dimension drawing	Type	ID	
	RA-MW-200-12-PS1-10	100038303	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.2 m, width 12 mm, D = 10 mm
	RA-MW-200-12-RT1-10	100038304	Aluminum measuring wheel (studded PU) for encoders; circumference 0.2 m, width 12 mm, D = 10 mm
	RA-MW-200-12-PC1-10	100038305	Aluminum measuring wheel (grooved PU) for encoders; circumference 0.2 m, width 12 mm, D = 10 mm