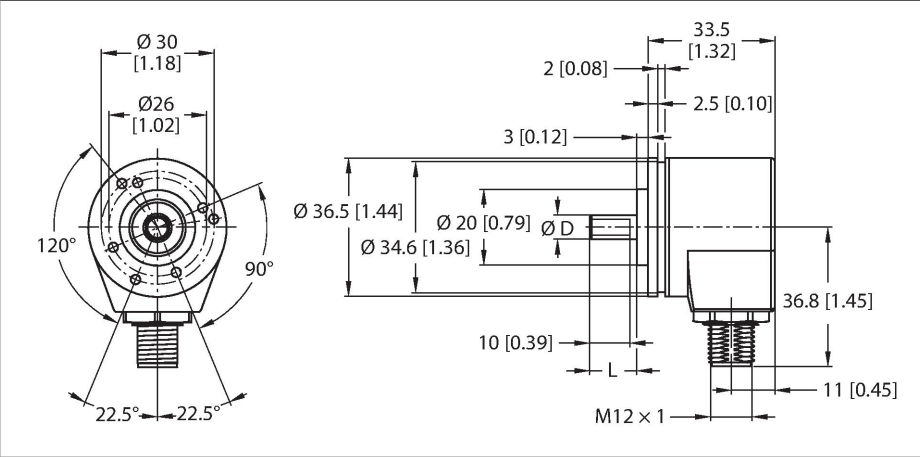


REI-04Q6C-2H2048-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-04Q6C-2H2048-H1181
ID	100011154
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	0.2 × 10 ⁻⁵ kgm ²
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution incremental	2048 ppr
Electrical data	
Operating voltage U _B	8...30 VDC
No-load current	≤ 40 mA
Output current	≤ 50 mA
Short-circuit protection	yes
Pulse frequency max.	200 kHz
Signal level high	min. U _B - 3 V
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, invertable
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 36.5 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
	Shaft with flat
Shaft material	Stainless steel

Features

- Clamping flange, Ø 36.5 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class shaft IP50
- Protection class housing IP65
- -20...+85 °C
- Max. 12000 rpm
- 8...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 200 kHz
- M12 × 1 male connector, 8-pin
- 2048 pulses per revolution

Wiring diagram



Technical data

Housing material	Aluminum chromated
Electrical connection	Connector, M12 × 1
	8-pin, radial
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-20...+85 °C
Vibration resistance (EN 60068-2-6)	100 m/s², 55...2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class	IP65
Protection class shaft	IP50

Accessories

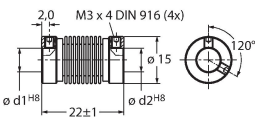
RCS-15-06-04 1545363

Bellows coupling, outer diameter:
15 mm, bore diameter: 6 mm/4 mm



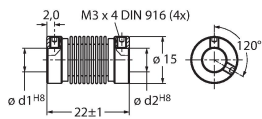
RCS-15-06-06 1545362

Bellows coupling, outer diameter:
15 mm, bore diameter: 6 mm/6 mm



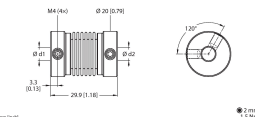
RCS-15-08-06 1545361

Bellows coupling, outer diameter:
15 mm, bore diameter: 8 mm/6 mm



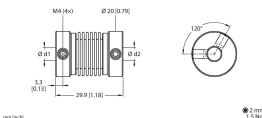
RA-BC-20-06-06 100048777

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



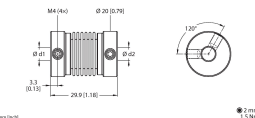
RA-BC-20-06-08 100048778

Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 8 mm



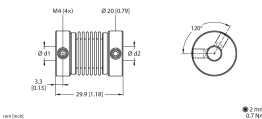
RA-BC-20-06-10 100048779

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



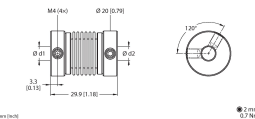
RA-BC-E-20-06-06 100048785

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



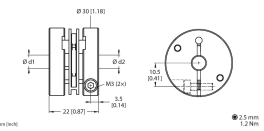
RA-BC-E-20-06-10 100048786

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



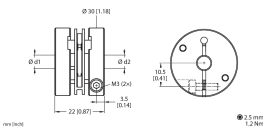
RA-SDC-30-06-10100048791

Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 10 mm



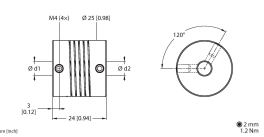
RA-SDC-30-06-06100048790

Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 6 mm



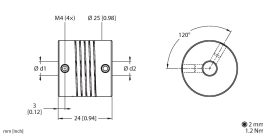
RA-HC-25-06-06100048794

Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 6 mm

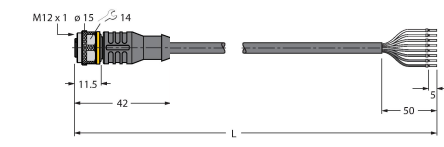
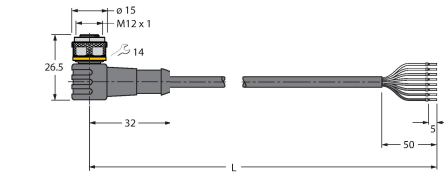


RA-HC-25-06-10100048795

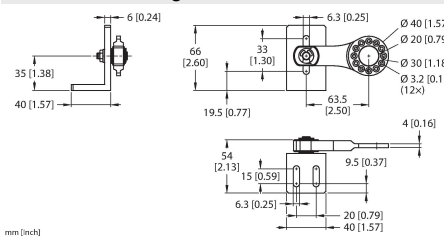
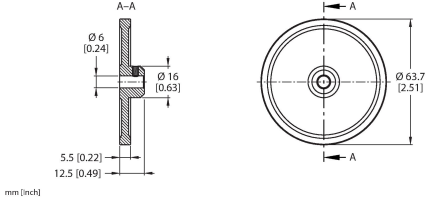
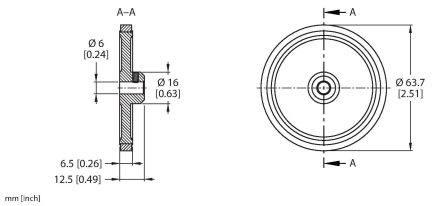
Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 10 mm



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-5-20	100038292	Spring arm for small incremental encoders with a 36.5-mm and 40-mm flange; recommended contact pressure 5 N; maximum contact pressure 20 N
	RA-MW-200-5.5-DK1-6	100038295	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-200-6.5-PS1-6	100038296	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.2 m, width 6.5 mm, D = 6 mm

Dimension drawing	Type	ID	
	RA-MW-200-5.5-OR1-6	100038298	Aluminum measuring wheel (O-ring) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-B0-5.5-DK1-6	100038299	Aluminum measuring wheel (cross knurled) for encoders; circumference 6", width 5.5 mm, D = 6 mm
	RA-MW-B0-6.5-PS1-6	100038300	Aluminum measuring wheel (smooth PU) for encoders; circumference 6", width 6.5 mm, D = 6 mm
	RA-MW-B0-5.5-OR1-6	100038301	Aluminum measuring wheel (O-ring) for encoders; circumference 6", width 5.5 mm, D = 6 mm