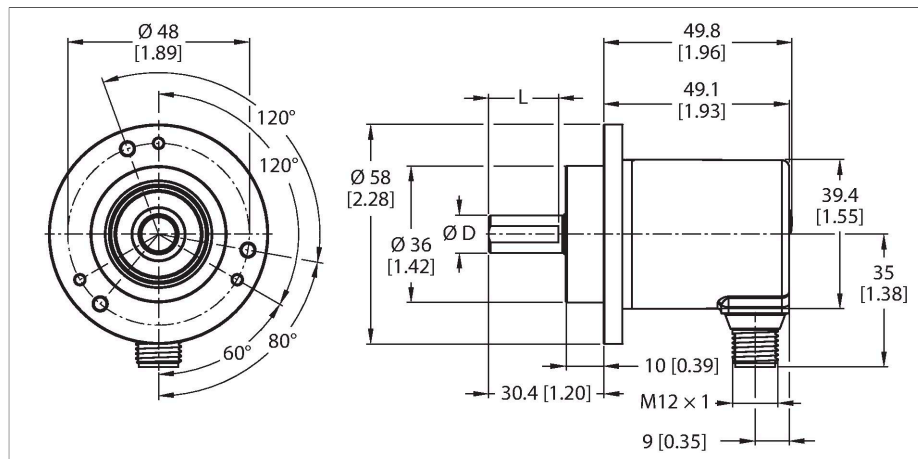


REM-E-121T10C-9F32B-H1151

Absolute Rotary Encoder - Multiturn

Efficiency Line



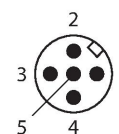
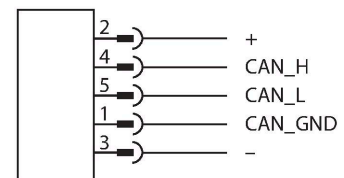
Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- -20...+70 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 10...30 VDC
- SAE J1939
- M12 × 1 male connector, 5-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable up to 29 bit over total resolution, default 18 bit
- Total resolution 32 bit scalable, default: 32 bit

Technical data

Type	REM-E-121T10C-9F32B-H1151
ID	100023364
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Repetition accuracy	± 0.2 ° At 25 °C
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
Electrical data	
Operating voltage U_b	10...30 VDC
No-load current	≤ 80 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	SAE J1939
Interface	SAE J1939
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
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	M12, 5-pin
Axial shaft load	40 N

Wiring diagram




Technical data

Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-20...+70 °C
Vibration resistance (EN 60068-2-6)	30 g (300 m/s ²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	500 g (2500 m/s ²), 4 ms
Protection class	IP64
Protection class shaft	IP64

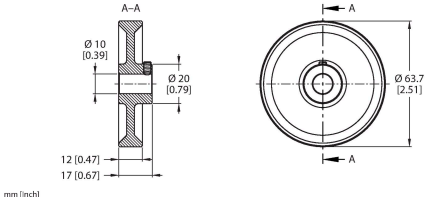
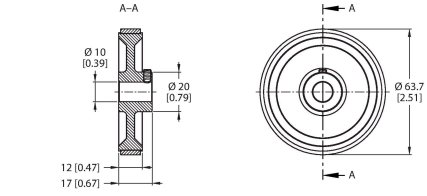
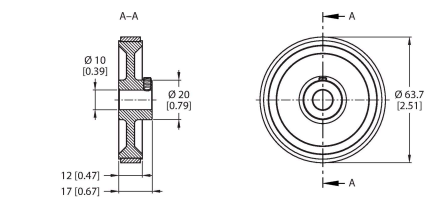
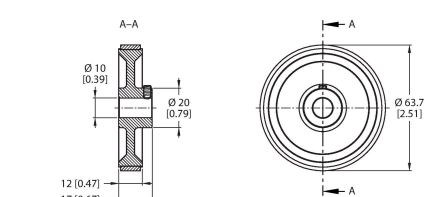
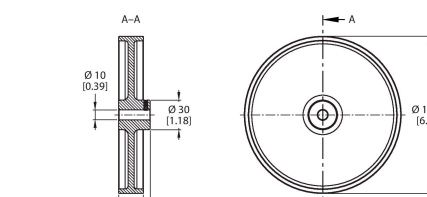
Accessories

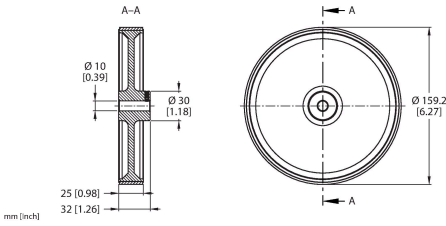
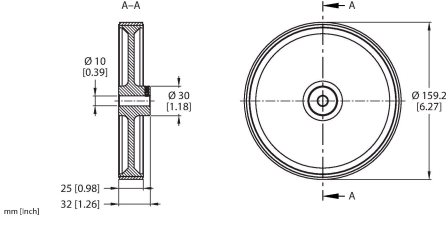
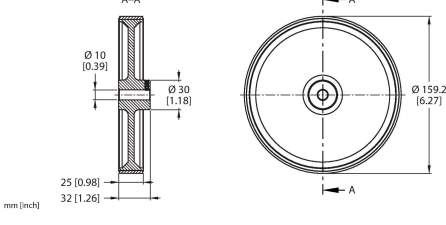
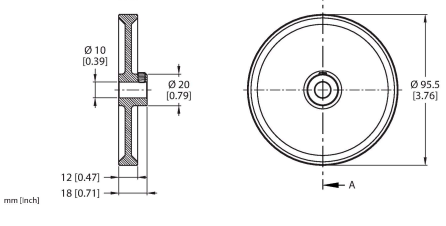
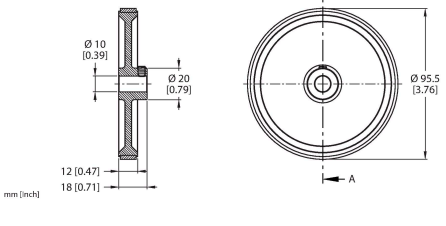
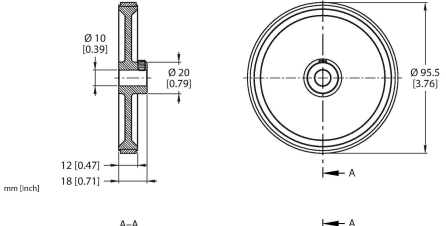
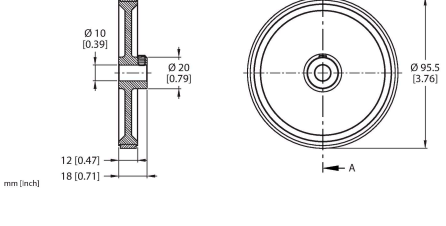
<p>RA-BC-20-06-10</p> <p>● 2 mm 1.5 Nm</p>	<p>100048779</p> <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 10 mm</p>	<p>RA-BC-20-08-10</p> <p>● 2 mm 1.5 Nm</p>	<p>100048781</p> <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 8 mm, d2 = 10 mm</p>
<p>RA-BC-20-10-10</p> <p>● 2 mm 1.5 Nm</p>	<p>100048782</p> <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 10 mm</p>	<p>RA-BC-20-10-12</p> <p>● 2 mm 1.5 Nm</p>	<p>100048783</p> <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 12 mm</p>
<p>RA-BC-E-20-06-10</p> <p>● 2 mm 0.7 Nm</p>	<p>100048786</p> <p>Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 10 mm</p>	<p>RA-BC-E-20-10-10</p> <p>● 2 mm 0.7 Nm</p>	<p>100048787</p> <p>Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 10 mm</p>
<p>RA-BC-E-20-10-12</p> <p>● 2 mm 0.7 Nm</p>	<p>100048788</p> <p>Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 12 mm</p>	<p>RA-SDC-30-10-10</p> <p>● 2.5 mm 1.2 Nm</p>	<p>100048792</p> <p>Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 10 mm</p>
<p>RA-SDC-30-10-12</p> <p>● 2.5 mm 1.2 Nm</p>	<p>100048793</p> <p>Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 12 mm</p>	<p>RA-HC-25-10-10</p> <p>● 3 mm 1.2 Nm</p>	<p>100048796</p> <p>Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 10 mm</p>
<p>RA-HC-25-10-12</p> <p>● 3 mm 1.2 Nm</p>	<p>100048797</p> <p>Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 12 mm</p>		

Accessories

Dimension drawing	Type	ID	
	RKC5701-5M	6931034	Bus cable for CAN (DeviceNet, -CANopen), M12 female connector, straight, cable length: 5 m, jacket material: PUR, anthracite; cULus approval

Accessories

Dimension drawing	Type	ID	
	RA-MW-200-12-DK1-10	100038302	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 12 mm, D = 10 mm
	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
	RA-MW-500-25-DK1-10	100038314	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm

Dimension drawing	Type	ID	
	RA-MW-500-25-PS1-10	100038315	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm
	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

Dimension drawing

Type

ID

Dimension drawing	Type	ID	Description
<p>Technical drawing of RA-SAB-15-36. Side view dimensions: 8 [0.31], M5 (2x), 6 [0.24], 18.5 [0.73], 40 [1.57]. Front view dimensions: 120 [4.72], Ø 48 [1.89], Ø 36 [1.42], 7.5 [2.95], 4.5 [1.77], M5 (2x), Ø 60 [2.36], Ø 4.2 [0.17] (6x).</p>	RA-SAB-15-36	100038251	Spring arm for encoders with a 58-mm flange; recommended contact pressure 15 N; maximum contact pressure 30 N
<p>Technical drawing of RA-SAB-30-36. Side view dimensions: 40.4 [1.59], 120 [4.72], 90 [3.54], 8 [0.31], 8 [0.31], 70 [2.76]. Front view dimensions: Ø 48 [1.89], Ø 36 [1.42], 60 [2.36], Ø 3.8 [0.15] (3x), Ø 7 [0.28] (3x), 17.5 [0.69], 60 [2.36], 40 [1.57], 8.3 [0.32], 6.5 [0.26], 66 [2.60].</p>	RA-SAB-30-36	100038294	Spring arm for encoders with a 58-mm flange; recommended contact pressure 30 N; maximum contact pressure 40 N
<p>Technical drawing of RA-SAB-30-36. Side view dimensions: 120 [4.72], 8 [0.31], 6.5 [0.26], 31 [1.22], 38 [1.50], 90.2 [3.55], 102.4 [4.03]. Front view dimensions: 120 [4.72], M6 (8x), 38 [1.50], 60 [2.36].</p>			