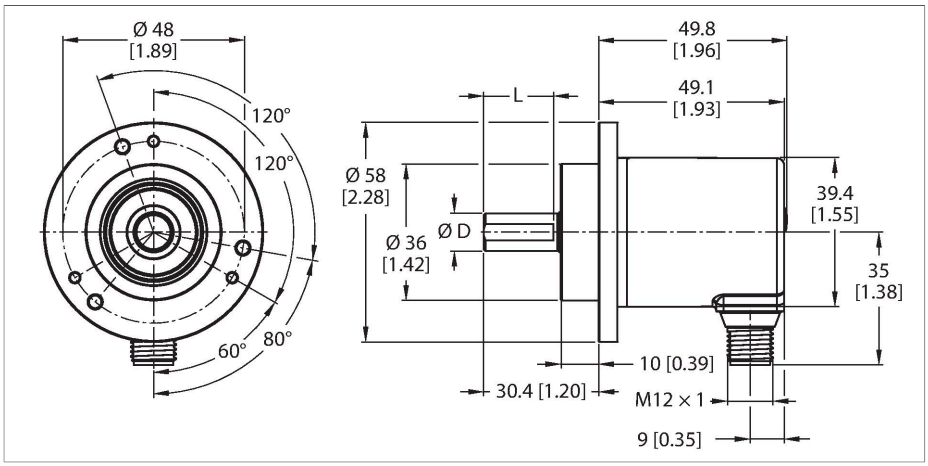
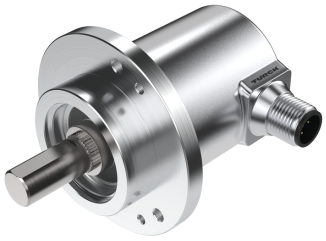
REM-E-195T10C-IOL32B-H1141
Absolute Rotary Encoder - Multiturn – IO-Link Efficiency Line





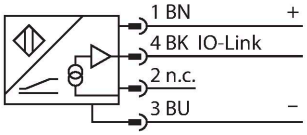
Technical data

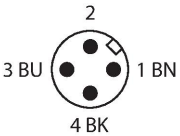
Type	REM-E-195T10C-IOL32B-H1141
ID	100021186
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Repetition accuracy	± 0.2 °
Absolute accuracy	± 0.5 °
Output type	Absolute multiturn
Electrical data	
Operating voltage U_B	18…30 VDC
No-load current	≤ 40 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	IO-Link
IO-Link	
IO-Link specification	V 1.1
Programming	FDT/DTM
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

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
- 18…30 VDC
- M12 × 1 male connector, 4-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable only to 18 bits over total resolution, default 18 bits
- Total resolution 32 bit scalable, default 32 bit

Wiring diagram





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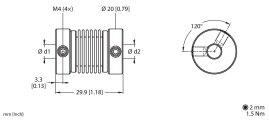
Technical data

	5-pin
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-20…+70 °C
Vibration resistance (EN 60068-2-6)	30 g (300 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	500 g (2500 m/s²), 4 ms
Protection class	IP64
Protection class shaft	IP64
MTTF	25 years

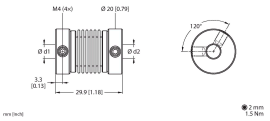
Accessories

RA-BC-20-06-10 100048779



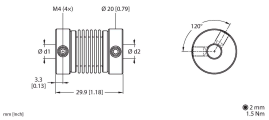
Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 10 mm

RA-BC-20-08-10 100048781



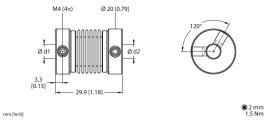
Bellows coupling with aluminum hub Ø 20 mm; d1 = 8 mm, d2 = 10 mm

RA-BC-20-10-10 100048782



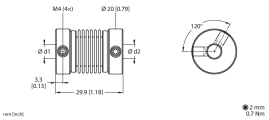
Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 10 mm

RA-BC-20-10-12 100048783



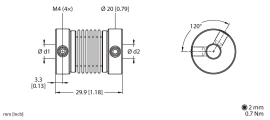
Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 12 mm

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



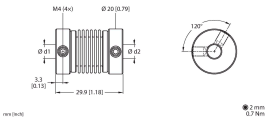
Stainless steel bellows coupling Ø 20 mm; d1 = 6 mm, d2 = 10 mm

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



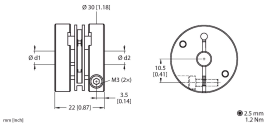
Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 10 mm

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



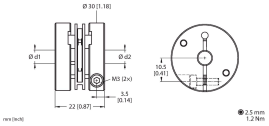
Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 12 mm

RA-SDC-30-10-10 100048792



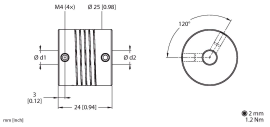
Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 10 mm

RA-SDC-30-10-12 100048793



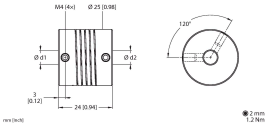
Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 12 mm

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

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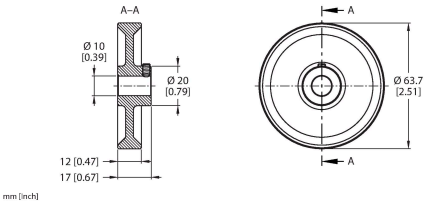
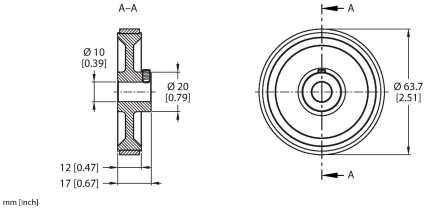
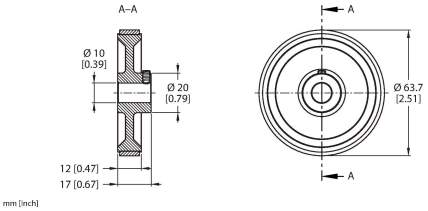
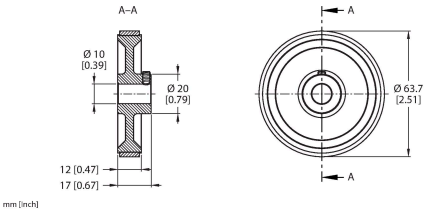
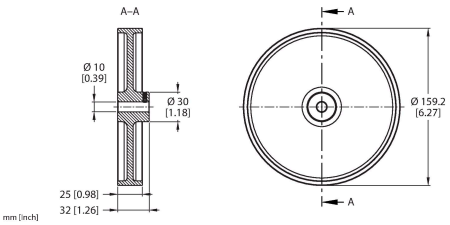
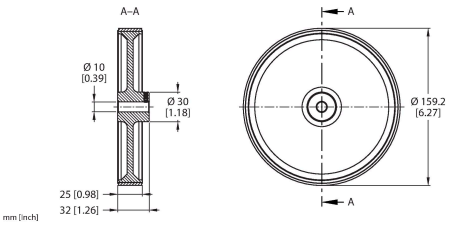
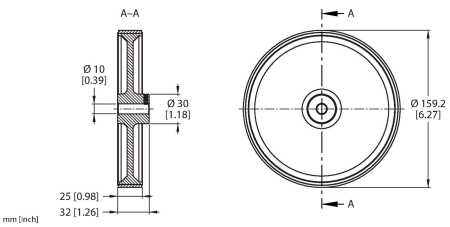
Accessories

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
	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

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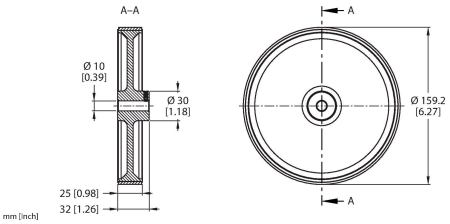
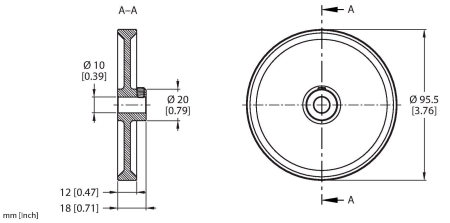
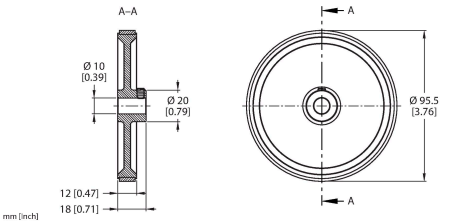
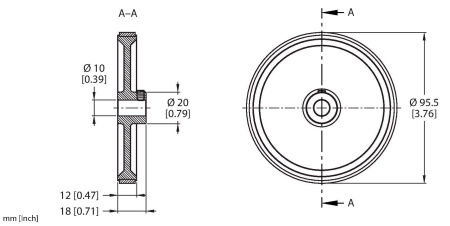
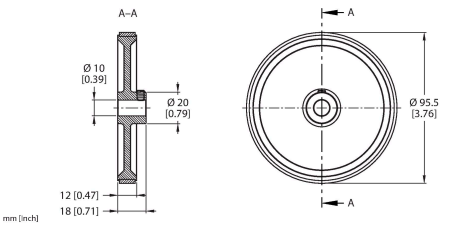
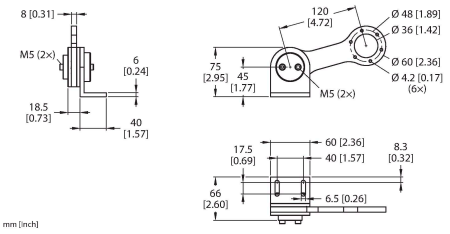
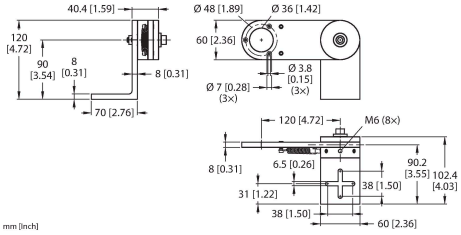
Dimension drawing	Type	ID	
	RA-MW-500-25-PC1-10	100038317	Aluminum measuring wheel (grooved PU) for encoders; circumference 0.5 m, width 25 mm, D = 10 mm
	RA-MW-300-12-DK1-10	100038306	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.3 m, width 12 mm, D = 10 mm
	RA-MW-300-12-PS1-10	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-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

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