

REM-116T10C-7AAR-H1151

Absolute Rotary Encoder - Multiturn Industrial Line



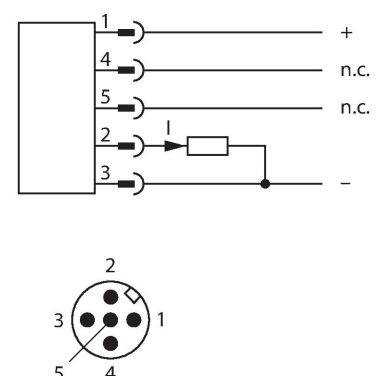
Technical data

Type	REM-116T10C-7AAR-H1151
ID	100011412
Measuring principle	Magnetic
General data	
Max. Rotational Speed	4000 rpm
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	≤ 38 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Output function	Analog output
Current output	4...20 mA
DA converter resolution	12 Bit
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
	5-pin
Axial shaft load	40 N

Features

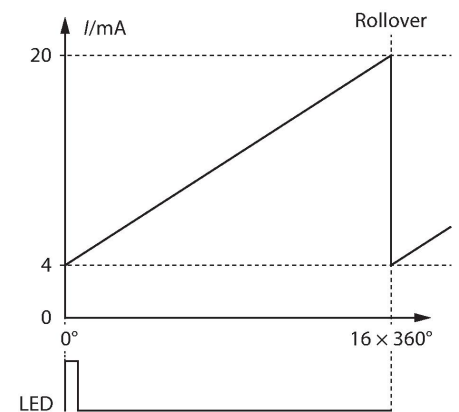
- Clamping flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40...+85°C
- Max. 4000 rpm (continuous operation: 2000)
- Energy harvesting technology
- 10...30 VDC
- Analog output, 4...20 mA per 16 CW revolutions
- 12-bit resolution
- M12 × 1 male connector, 5-pin

Wiring diagram



Technical data

Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+85 °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	IP65
Protection class shaft	IP65



Accessories

RA-BC-20-06-10 100048779

Bellows coupling with aluminum hub
 $\varnothing$ 20 mm; d1 = 6 mm, d2 = 10 mm

rev 1/2012 2 mm 1.5 Nm

RA-BC-20-08-10 100048781

Bellows coupling with aluminum hub
 $\varnothing$ 20 mm; d1 = 8 mm, d2 = 10 mm

rev 1/2012 2 mm 1.5 Nm

RA-BC-20-10-10 100048782

Bellows coupling with aluminum hub
 $\varnothing$ 20 mm; d1 = 10 mm, d2 = 10 mm

rev 1/2012 2 mm 1.5 Nm

RA-BC-20-10-12 100048783

Bellows coupling with aluminum hub
 $\varnothing$ 20 mm; d1 = 10 mm, d2 = 12 mm

rev 1/2012 2 mm 1.5 Nm

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

Stainless steel bellows coupling $\varnothing$ 20 mm; d1 = 6 mm, d2 = 10 mm

rev 1/2012 2 mm 0.7 Nm

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

Stainless steel bellows coupling $\varnothing$ 20 mm; d1 = 10 mm, d2 = 10 mm

rev 1/2012 2 mm 0.7 Nm

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

Stainless steel bellows coupling $\varnothing$ 20 mm; d1 = 10 mm, d2 = 12 mm

rev 1/2012 2 mm 0.7 Nm

RA-SDC-30-10-10 100048792

Spring disc coupling $\varnothing$ 30 mm; d1 = 10 mm, d2 = 10 mm

rev 1/2012 2.5 mm 1.2 Nm

RA-SDC-30-10-12 100048793

Spring disc coupling $\varnothing$ 30 mm; d1 = 10 mm, d2 = 12 mm

rev 1/2012 2.5 mm 1.2 Nm

RA-HC-25-10-10 100048796

Aluminum helix coupling $\varnothing$ 25 mm; d1 = 10 mm, d2 = 10 mm

rev 1/2012 2 mm 1.2 Nm

RA-HC-25-10-12 100048797

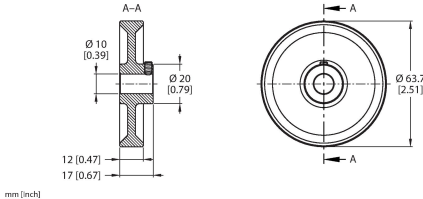
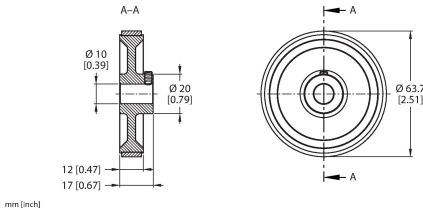
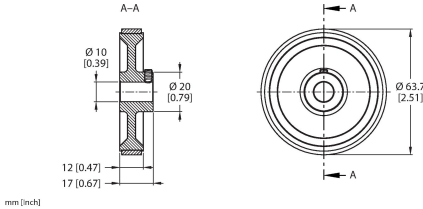
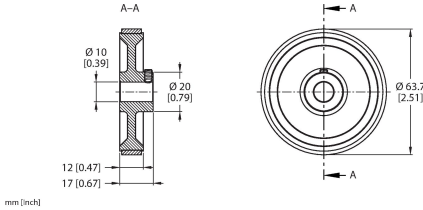
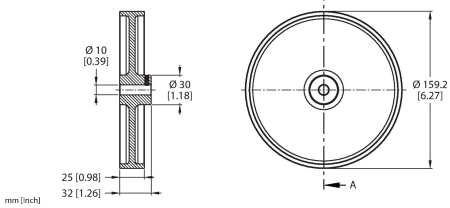
Aluminum helix coupling $\varnothing$ 25 mm; d1 = 10 mm, d2 = 12 mm

rev 1/2012 2 mm 1.2 Nm

Accessories

Dimension drawing	Type	ID	
	RKC4.5T-2/TEL	6625016	Connection cable, M12 female connector, straight, 5-pin, cable length: 2 m, jacket material: PVC, black; 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	
 mm [inch]	RA-SAB-15-36	100038251	Spring arm for encoders with a 58-mm flange; recommended contact pressure 15 N; maximum contact pressure 30 N
 mm [inch]	RA-SAB-30-36	100038294	Spring arm for encoders with a 58-mm flange; recommended contact pressure 30 N; maximum contact pressure 40 N