

REM-97S6C-8BAL-H1151

Absolute Rotary Encoder - Multiturn Industrial Line



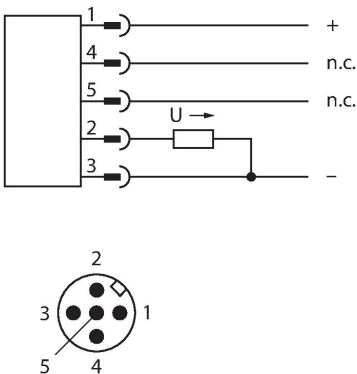
Technical data

Type	REM-97S6C-8BAL-H1151
ID	100011319
Measuring principle	Magnetic
General data	
Max. Rotational Speed	4000 rpm
Starting torque	< 0.01 Nm
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
Electrical data	
Operating voltage U _B	15...30 VDC
No-load current	≤ 35 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Output function	Analog output
Voltage output	0...10 V
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
Axial shaft load	20 N
Radial shaft load	40 N

Features

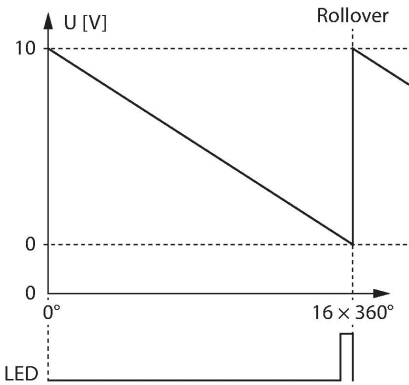
- Clamping flange, Ø 36 mm
- Solid shaft, Ø 6 mm × 12.5 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 15...30 VDC
- Analog output, 0...10 V per 16 CCW revolutions
- 12-bit resolution
- M12 × 1 male connector, 5-pin

Wiring diagram



Technical data

Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s², 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67



Accessories

RA-BC-20-06-06

100048777

2 mm
1.5 Nm

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

RA-BC-20-06-08

100048778

2 mm
1.5 Nm

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

RA-BC-20-06-10

100048779

2 mm
1.5 Nm

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

RA-BC-E-20-06-06

100048785

2 mm
0.7 Nm

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

RA-BC-E-20-06-10

100048786

2 mm
0.7 Nm

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

RA-SDC-30-06-10

100048791

2.5 mm
1.2 Nm

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

RA-SDC-30-06-06

100048790

2.5 mm
1.2 Nm

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

RA-HC-25-06-06

100048794

2 mm
1.2 Nm

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

RA-HC-25-06-10

100048795

2 mm
1.2 Nm

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

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

