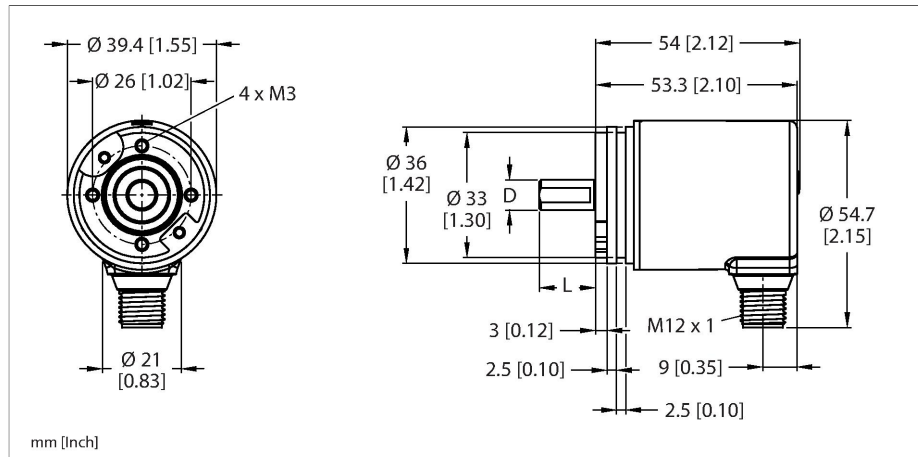


RES-180S6S-7AAR-H1151/N0

Absolute Rotary Encoder - Singleturn

Industrial Line



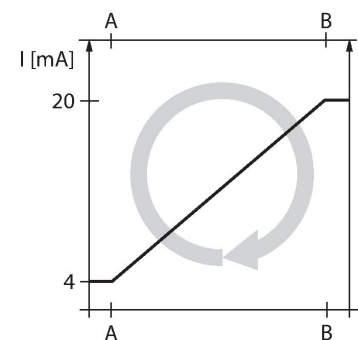
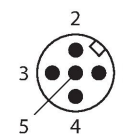
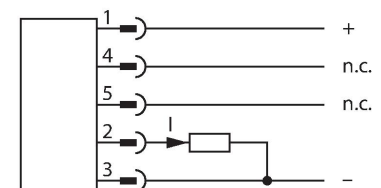
Features

- Synchro 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)
- 10...30 VDC
- Analog output 4...20 mA
- Counting mode CW
- M12 × 1 male connector, 5-pin
- 360° resolved in 12 bit (4096 positions)

Technical data

Type	RES-180S6S-7AAR-H1151/N0
ID	100016353
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Starting torque	< 0.01 Nm
Measuring range	0...360 °
Repetition accuracy	± 0.2 ° At 25 °C
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	12 Bit
Electrical data	
Operating voltage U _B	10...30 VDC
No-load current	≤ 38 mA
Short-circuit protection	yes
Output function	Analog output
Current output	4...20 mA
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
	Shaft with surface
Shaft material	Stainless steel
Housing material	Die-cast zinc

Wiring diagram



Technical data

Electrical connection	Connector, M12 × 1
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP67

Accessories

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-30-06-10 100048791 Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 10 mm
RA-SDC-30-06-06 100048790 Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 6 mm	RA-HC-25-06-06 100048794 Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 6 mm

RA-HC-25-06-10

100048795

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

