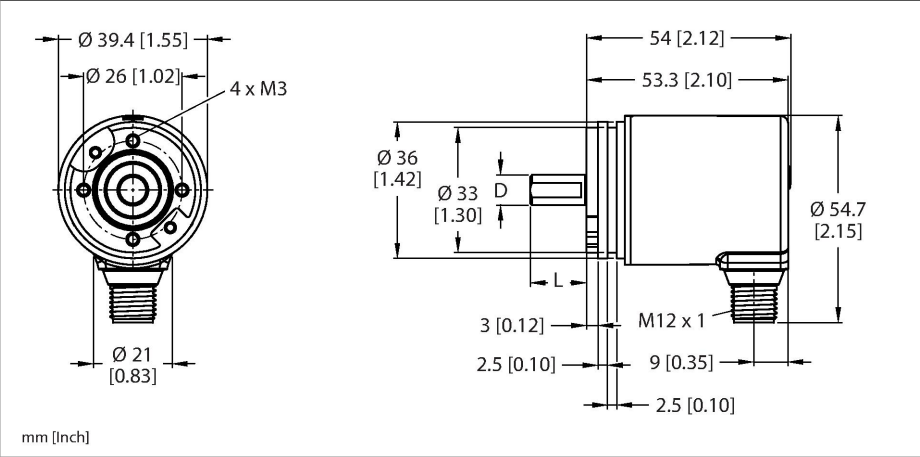


RES-180S8S-7AAR-H1151/N0

Absolute Rotary Encoder - Singleturn

Industrial Line



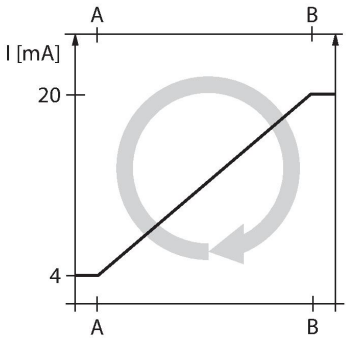
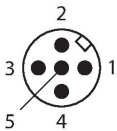
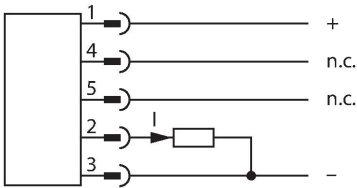
Technical data

Type	RES-180S8S-7AAR-H1151/N0
ID	100016354
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)	8
Shaft Length L [mm]	15
	Shaft with surface
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

- Synchro flange, Ø 36 mm
- Solid shaft, Ø 8 mm × 15 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)

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/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-20-06-08100048778

2 mm
1.5 Nm

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

RA-BC-20-08-08100048780

2 mm
1.5 Nm

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

RA-BC-20-08-10100048781

2 mm
1.5 Nm

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

RA-BC-20-08-12100049106

2 mm
1.5 Nm

Belbows coupling with aluminum hub
Ø 20 mm; d1 = 8 mm, d2 = 12 mm