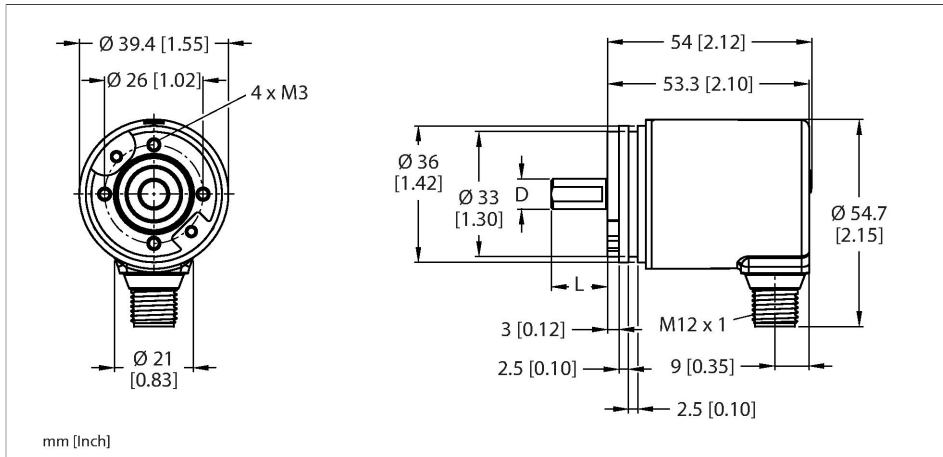


RS-180T8S-7AAR-H1151/N0

Absolute Shaft Encoder

Industrial Line



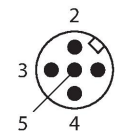
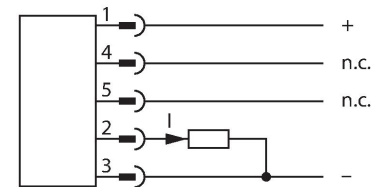
Features

- Synchro flange, Ø 36 mm
- Solid shaft, Ø 8 mm × 20 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40 °C...+85 °C
- Max. 6000 rpm (continuous operation: 3000)
- Energy harvesting technology
- 10...30 VDC
- Analog output 4...20 mA
- Counting mode CW
- M12 × 1 male connector, 5-pin
- 360° resolved in 12 bit (4096 positions)

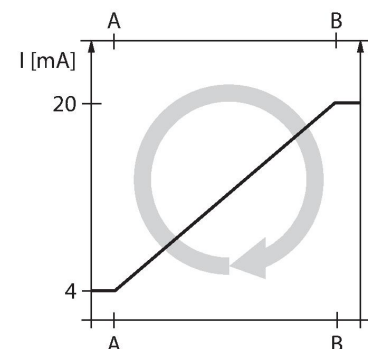
Technical data

Type	RS-180T8S-7AAR-H1151/N0
ID	200008713
Measuring principle	Magnetic
General data	
Max. rotational speed	6000 rpm
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 material	Stainless Steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1

Wiring diagram



Functional principle



Technical data

	M12, 5-pole
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	30 g (300 m/s ²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	500 g (2500 m/s ²), 4 ms
Protection class	IP65
Protection class shaft	IP65