

RES-181BA0T-8BAR-H1151/N0

Absolute Rotary Encoder - Singleturn

Industrial Line



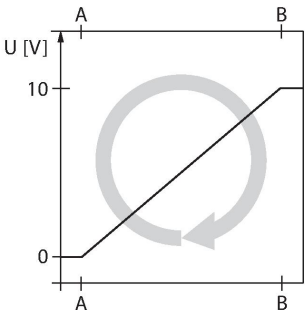
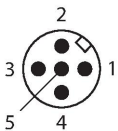
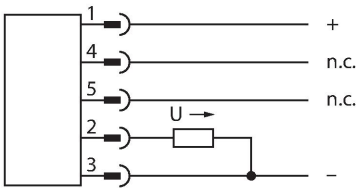
Technical data

Type	RES-181BA0T-8BAR-H1151/N0
ID	100016373
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	15...30 VDC
No-load current	≤ 35 mA
Short-circuit protection	yes
Output function	Analog output
Voltage output	0...10 V
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 36 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	6.35
Shaft diameter D	0.25 in
Shaft Length L [mm]	18.5
Outer diameter of compression fitting D1	24 mm
Shaft material	Stainless steel

Features

- Flange with mounting element
- Blind hole hollow shaft, Ø 6.35 mm (plug-in depth max. 18.5 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)
- 15...30 VDC
- Analog output 0...10 V
- Counting mode CW
- M12 × 1 male connector, 5-pin
- 360° resolved in 12 bit (4096 positions)

Wiring diagram



Technical data

Housing material	Die-cast zinc
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)	300 m/s², 10...2000 Hz
Protection class	IP67
Protection class shaft	IP67