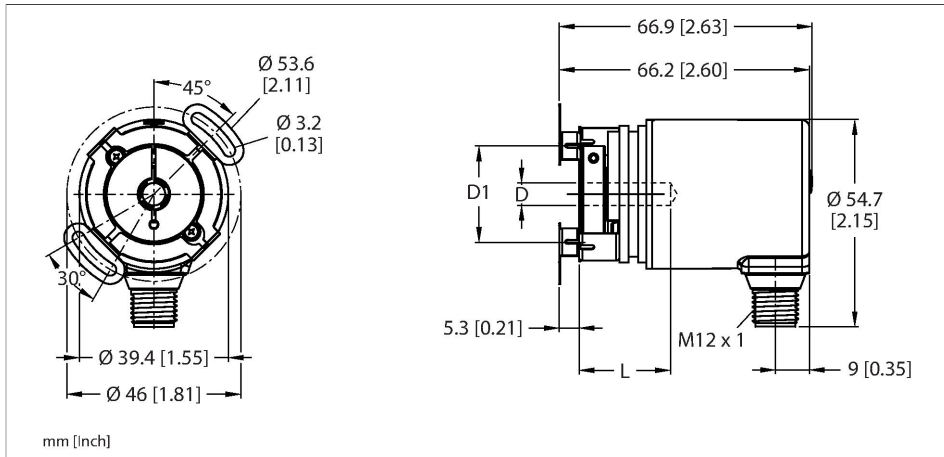


RS-181BA0E-8BAR-H1151/N3

Absolute Rotary Encoder - Singleturn

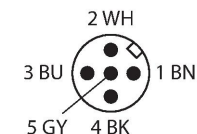
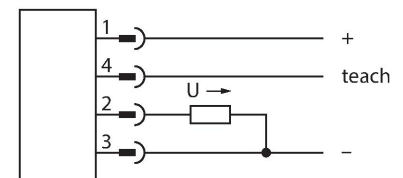
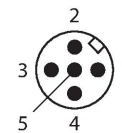
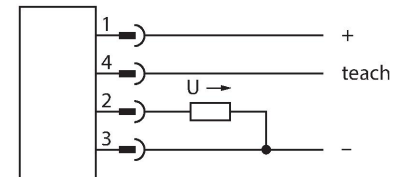
Industrial Line



Features

- Flange with slotted flex mount, Ø 46 mm
- Hollow shaft, Ø 1/4"
- Optical measuring principle
- Shaft material, stainless steel
- IP67 rated on the shaft side
- -40...+85 °C
- Max. 4000 rev/min
- 15...30 VDC
- Analog output 0...10 V
- M12 × 1 male connector, 5-pin
- 90° resolved in 12 bit (4096 positions)

Wiring diagram



Technical data

Type	RS-181BA0E-8BAR-H1151/N3
ID	200010824
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Starting torque	< 0.01 Nm
Measuring range	0...90 °
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	5-wire, Analog output
Voltage output	0...10 V
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	Ø 46 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	6.35
Shaft diameter D	0.25 in

Technical data

Shaft Length L [mm]	18.5
Outer diameter of compression fitting D1	24 mm
Shaft material	Stainless steel
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/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	30 g (300 m/s ²), 10...2000 Hz
Protection class	IP67
Protection class shaft	IP67