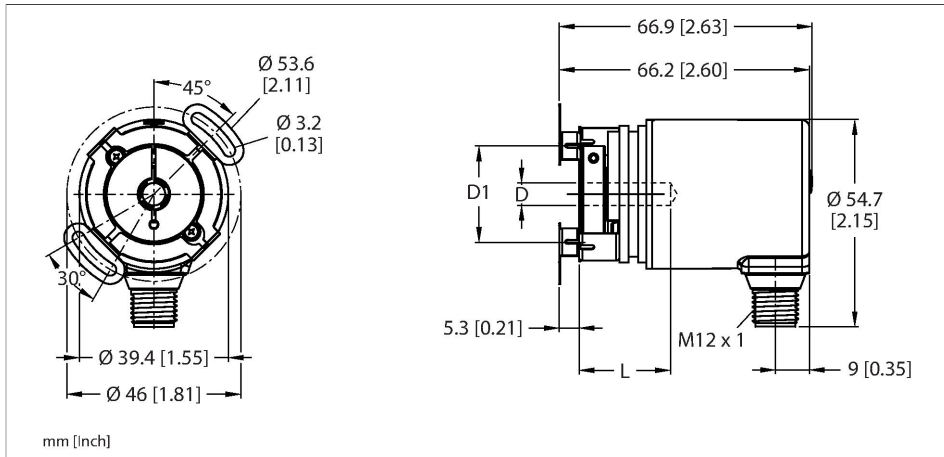


RS-185CA0E-9D14B-H1151

Absolute Rotary Encoder - Singleturn

Industrial Line



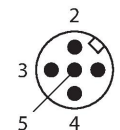
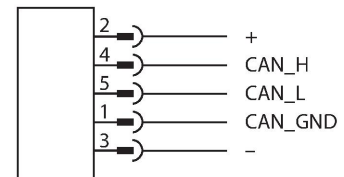
Features

- Flange with slotted flex mount, Ø 46 mm
- Hollow shaft, Ø 1/4"
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on housing and shaft side
- -40 °C...+85 °C
- Max. 6000 rpm (continuous operation: 3000)
- Energy harvesting technology
- 10...30 VDC
- CANopen
- M12 × 1 male connector, 5-pin
- 360° resolved in 14 bit (16384 positions)

Technical data

Type	RS-185CA0E-9D14B-H1151
ID	200010701
Measuring principle	Magnetic
General data	
Max. rotational speed	6000 rpm
Starting torque	< 0.01 Nm
Measuring range	0...360 °
Absolute accuracy	± 0.015 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	14 Bit
Electrical data	
Operating voltage U _B	10...30 VDC
No-load current	≤ 80 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	CANopen
Interface	CAN high-speed acc. to ISO 11898, Basic and Full-CAN, CAN specification 2.0 B
Node ID	1...127 mit Software konfigurierbar; Werkseinstellung: 63
Baud rate	10...1000 kbps can be configured using software, factory settings 125 kbps

Wiring diagram



Technical data

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
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	IP65

Mounting instructions

Mounting instructions/Description	
	CANbus connection The CANopen encoders are equipped with an M12 connector and can be terminated in the device. The devices are not equipped with an integrated T-coupler and looped-through bus and should therefore be used only as end devices (see also Accessories).