

RES-185B8T-9D14B-H1151

Absolute Rotary Encoder - Single-Turn Industrial Line



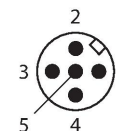
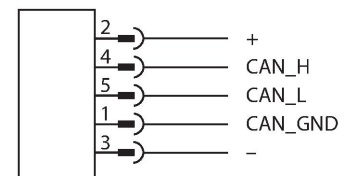
Features

- Flange with mounting element
- Blind hole hollow shaft, Ø 8 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)
- 10...30 VDC
- CANopen
- M12 × 1 male connector, 5-pin
- 360° resolved in 14 bit (16384 positions)

Technical data

Type	RES-185B8T-9D14B-H1151
ID	100016334
Measuring principle	Magnetic
General data	
Max. Rotational Speed	4000 rpm
Starting torque	< 0.01 Nm
Measuring range	0...360 °
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	14 Bit
Electrical data	
Operating voltage	10...30 VDC
No-load current	90 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Communication protocol	CANopen
Interface	CAN High-Speed in accordance with 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
Mechanical data	
Design	Hollow shaft
Flange type	Flange with mounting element
Flange diameter	Ø 36 mm

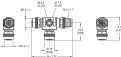
Wiring diagram



Technical data

Shaft Type	Blind hole shaft
Shaft diameter D [mm]	8
Shaft Length L [mm]	18.5
Outer diameter of compression fitting D1	25.5 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/s², 10...2000 Hz
Shock resistance (EN 60068-2-27)	300 m/s², 10...2000 Hz
Protection class	IP67
Protection class shaft	IP67

Accessories

Dimension drawing	Type	ID	
	FSM-2FKM57	6622101	CANopen/DeviceNet/power supply T-splitter, 1 × M12 male connector, 2 × M12 female connector, 5-pin