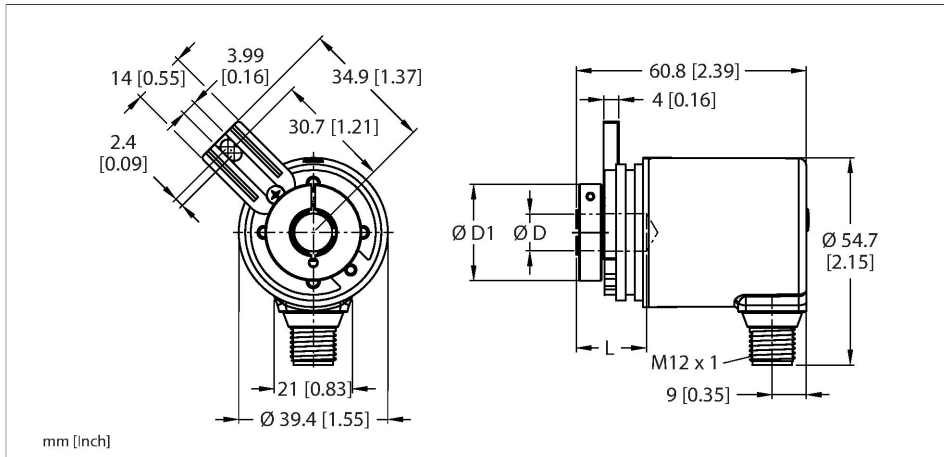


RES-185B8T-9F14B-H1151

Absolute Rotary Encoder - Singleturn

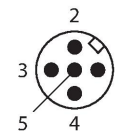
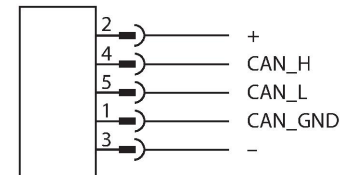
Industrial Line



Features

- Flange with long torque stop
- Hollow shaft, Ø 8mm
- Optical measuring principle
- Shaft material, stainless steel
- IP67 rated on the shaft side
- -40...+85 °C
- Max. 4000 rev/min
- 10...30 VDC
- SAE J1939
- M12 × 1 male, 5-pin
- 360° resolved in 14 bit (16384 positions)

Wiring diagram



Technical data

Type	RES-185B8T-9F14B-H1151
ID	100026166
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 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	SAE J1939
Interface	SAE J1939
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 36 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	8
Shaft Length L [mm]	18.5

Technical data

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)	30 g (300 m/s²), 10...2000 Hz
Protection class	IP67
Protection class shaft	IP67

Wiring accessories

Dimension drawing	Type	ID	
	RKC5701-5M	6931034	Bus cable for CAN (DeviceNet, -CANopen), M12 female connector, straight, cable length: 5 m, jacket material: PUR, anthracite; cULus approval