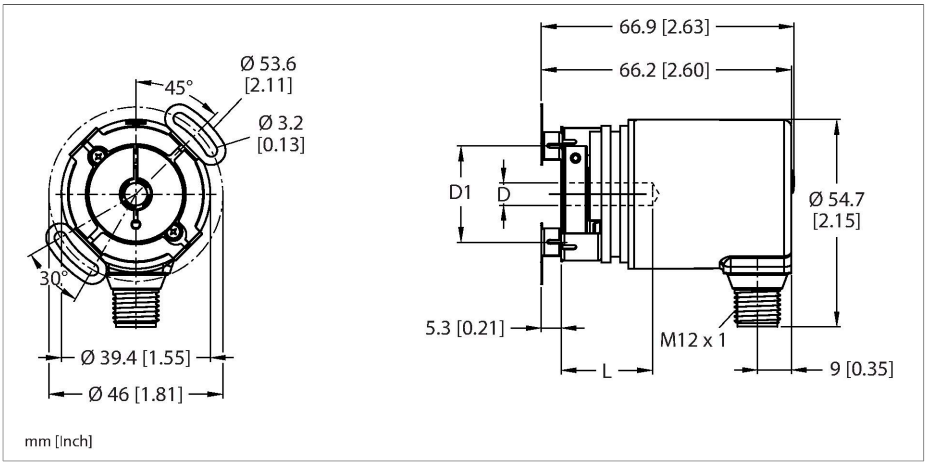
RES-185B6E-9F14B-H1151
Absolute Rotary Encoder - Singleturn
Industrial Line



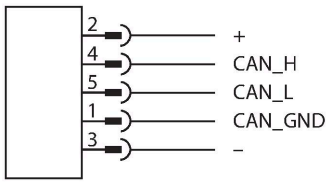
Features

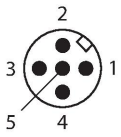
- Flange with stator coupling, Ø 46 mm
- Blind hole hollow shaft, Ø 6 mm (plug-in depth max. 18.5 mm)
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- 10…30 VDC
- SAE J1939
- M12 × 1 male, 5-pin
- 360° resolved in 14 bit (16384 positions)

Technical data

Type	RES-185B6E-9F14B-H1151
ID	100026161
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 stator coupling
Flange diameter	Ø 46 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	18.5
Outer diameter of compression fitting D1	24 mm
Shaft material	Stainless steel
Housing material	Die-cast zinc

Wiring diagram

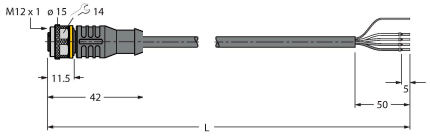




Technical data

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

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