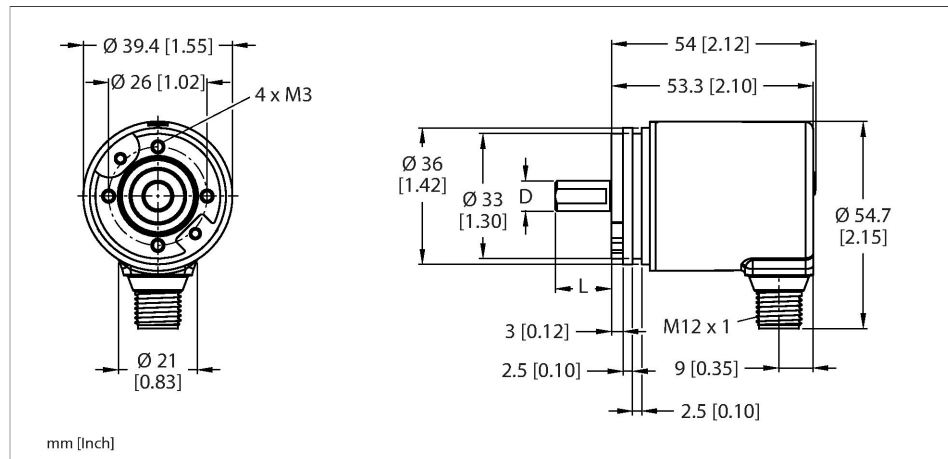


RES-184S10S-9F14B-H1151

Absolute Rotary Encoder - Singleturn

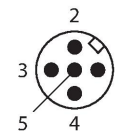
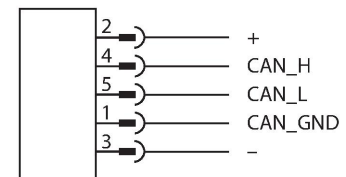
Industrial Line



Features

- Synchro flange, Ø 36 mm
- Solid shaft, Ø 10 mm × 20 mm
- Magnetic 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-184S10S-9F14B-H1151
ID	100026159
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	Synchro flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20

Technical data

	Shaft with surface
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)	2500 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP67

Accessories

RA-BC-20-06-10 100048779

Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-BC-20-06-10 bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-BC-20-08-10 100048781

Bellows coupling with aluminum hub
Ø 20 mm; d1 = 8 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-BC-20-08-10 bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-BC-20-10-10 100048782

Bellows coupling with aluminum hub
Ø 20 mm; d1 = 10 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-BC-20-10-10 bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-BC-20-10-12 100048783

Bellows coupling with aluminum hub
Ø 20 mm; d1 = 10 mm, d2 = 12 mm

Technical drawing showing side and end views of the RA-BC-20-10-12 bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-BC-E-20-06-10 100048786

Stainless steel bellows coupling Ø
20 mm; d1 = 6 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-BC-E-20-06-10 stainless steel bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-BC-E-20-10-10 100048787

Stainless steel bellows coupling Ø
20 mm; d1 = 10 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-BC-E-20-10-10 stainless steel bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-BC-E-20-10-12 100048788

Stainless steel bellows coupling Ø
20 mm; d1 = 10 mm, d2 = 12 mm

Technical drawing showing side and end views of the RA-BC-E-20-10-12 stainless steel bellows coupling. Dimensions include M4 (4x), Ø 20 (0.79), Ø d1, Ø d2, 3.3 (0.13), 29.9 (1.18), and a 120° angle. Torque rating: 2 mm, 1.5 Nm.

RA-SDC-30-10-10 100048792

Spring disc coupling Ø 30 mm; d1 =
10 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-SDC-30-10-10 spring disc coupling. Dimensions include Ø 30 (1.18), Ø d1, Ø d2, 3.3 (0.13), 22 (0.87), 10.5 (0.41), 30.14, and a 120° angle. Torque rating: 2 mm, 1.2 Nm.

RA-SDC-30-10-12 100048793

Spring disc coupling Ø 30 mm; d1 =
10 mm, d2 = 12 mm

Technical drawing showing side and end views of the RA-SDC-30-10-12 spring disc coupling. Dimensions include Ø 30 (1.18), Ø d1, Ø d2, 3.3 (0.13), 22 (0.87), 10.5 (0.41), 30.14, and a 120° angle. Torque rating: 2.5 mm, 1.2 Nm.

RA-HC-25-10-10 100048796

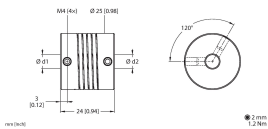
Aluminum helix coupling Ø 25 mm; d1
= 10 mm, d2 = 10 mm

Technical drawing showing side and end views of the RA-HC-25-10-10 aluminum helix coupling. Dimensions include M4 (4x), Ø 25 (0.98), Ø d1, Ø d2, 3 (0.12), 24 (0.94), and a 120° angle. Torque rating: 2 mm, 1.2 Nm.

RA-HC-25-10-12

100048797

Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 12 mm



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

