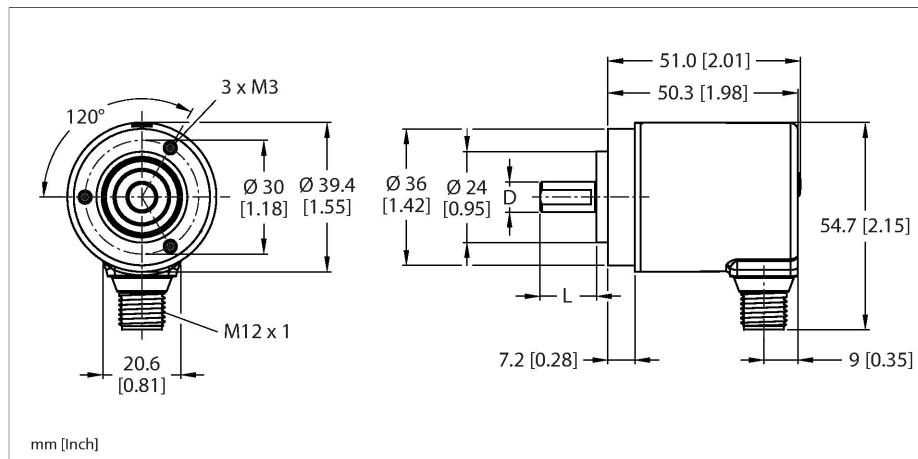


REM-101S10C-9F32B-H1151

Absolute Rotary Encoder - Multiturn Industrial Line



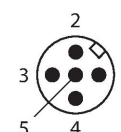
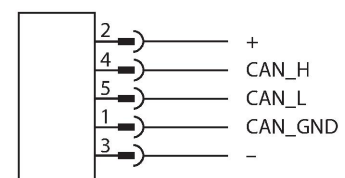
Technical data

Type	REM-101S10C-9F32B-H1151
ID	100023416
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Starting torque	< 0.01 Nm
Repetition accuracy	± 0.2 ° At 25 °C
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
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	Clamping flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
Axial shaft load	20 N

Features

- Clamping flange, Ø 36 mm
- Solid shaft, Ø 10 mm × 20 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+80 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- 10...30 VDC
- SAE J1939
- M12 × 1 male connector, 5-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable up to 29 bit over total resolution, default 18 bit
- Total resolution 32 bit scalable, default: 32 bit

Wiring diagram

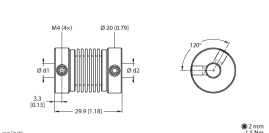


Technical data

Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40...+80 °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

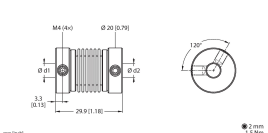
RA-BC-20-06-10 100048779



Technical drawing of RA-BC-20-06-10 bellows coupling with aluminum hub. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 1.5 Nm is indicated.

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

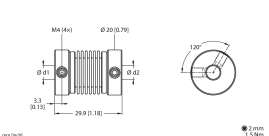
RA-BC-20-08-10 100048781



Technical drawing of RA-BC-20-08-10 bellows coupling with aluminum hub. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 1.5 Nm is indicated.

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

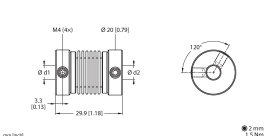
RA-BC-20-10-10 100048782



Technical drawing of RA-BC-20-10-10 bellows coupling with aluminum hub. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 1.5 Nm is indicated.

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

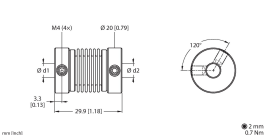
RA-BC-20-10-12 100048783



Technical drawing of RA-BC-20-10-12 bellows coupling with aluminum hub. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 1.5 Nm is indicated.

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

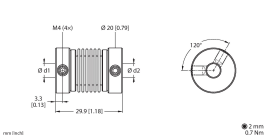
RA-BC-E-20-06-10 100048786



Technical drawing of RA-BC-E-20-06-10 stainless steel bellows coupling. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 0.7 Nm is indicated.

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

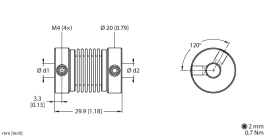
RA-BC-E-20-10-10 100048787



Technical drawing of RA-BC-E-20-10-10 stainless steel bellows coupling. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 0.7 Nm is indicated.

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

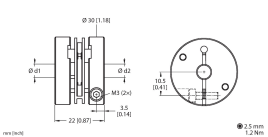
RA-BC-E-20-10-12 100048788



Technical drawing of RA-BC-E-20-10-12 stainless steel bellows coupling. The drawing shows a side view with dimensions: M4 (4x), Ø 20 (3.79), Ø d1, Ø d2, 3.3 (3.13), 28.9 (3.18), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 0.7 Nm is indicated.

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

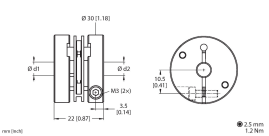
RA-SDC-30-10-10 100048792



Technical drawing of RA-SDC-30-10-10 spring disc coupling. The drawing shows a side view with dimensions: Ø 30 (1.18), Ø d1, Ø d2, 3.3 (3.13), 22 (3.07), 18.5 (3.07), and a 120° angle. The end view shows a 120° angle. A torque specification of 2.5 mm 1.2 Nm is indicated.

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

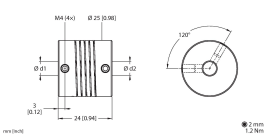
RA-SDC-30-10-12 100048793



Technical drawing of RA-SDC-30-10-12 spring disc coupling. The drawing shows a side view with dimensions: Ø 30 (1.18), Ø d1, Ø d2, 3.3 (3.13), 22 (3.07), 18.5 (3.07), and a 120° angle. The end view shows a 120° angle. A torque specification of 2.5 mm 1.2 Nm is indicated.

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

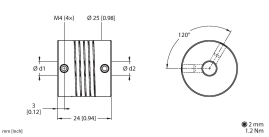
RA-HC-25-10-10 100048796



Technical drawing of RA-HC-25-10-10 aluminum helix coupling. The drawing shows a side view with dimensions: M4 (4x), Ø 25 (3.98), Ø d1, Ø d2, 3 (3.12), 24 (3.94), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 1.2 Nm is indicated.

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

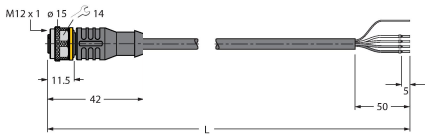
RA-HC-25-10-12 100048797



Technical drawing of RA-HC-25-10-12 aluminum helix coupling. The drawing shows a side view with dimensions: M4 (4x), Ø 25 (3.98), Ø d1, Ø d2, 3 (3.12), 24 (3.94), and a 120° angle. The end view shows a 120° angle. A torque specification of 2 mm 1.2 Nm is indicated.

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

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