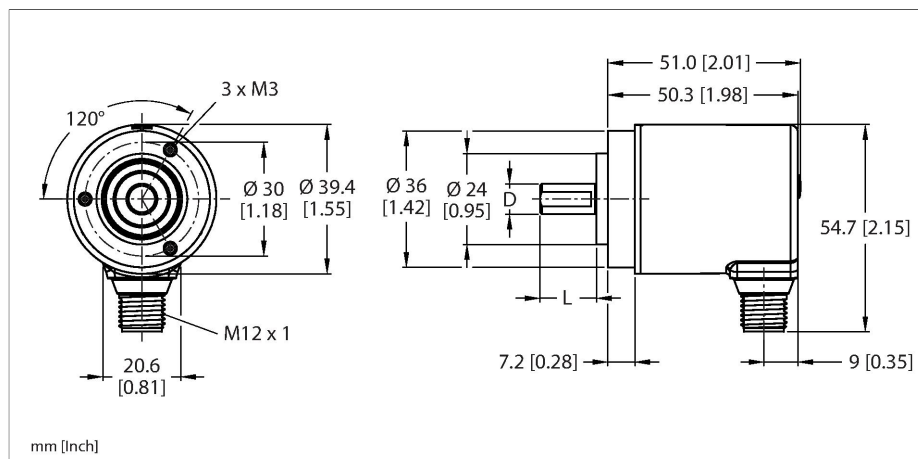


RES-182S10C-3C13B-H1181

Absolute Rotary Encoder - Singleturn

Industrial Line



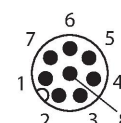
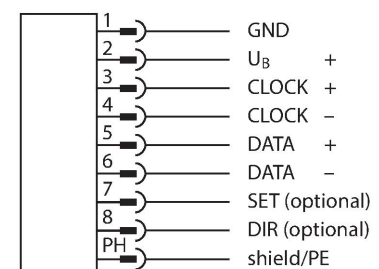
Technical data

Type	RES-182S10C-3C13B-H1181
ID	100016340
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	13 Bit
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	≤ 30 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Signal level high	typ. 3.8 V
Signal level low	typ. 1.3 V (20 mA load)
Communication protocol	SSi
Output function	Gray coded
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

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...+85 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- 10...30 VDC
- SSI, gray
- M12 × 1 male connector, 8-pin
- 360° resolved in 13 bit (8192 positions)

Wiring diagram

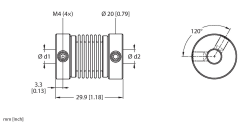


Technical data

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)	2500 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67

Accessories

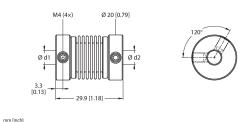
RA-BC-20-06-10 100048779



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

● 2 mm
1.5 Nm

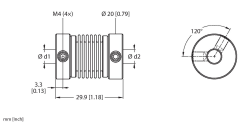
RA-BC-20-10-10 100048782



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

● 2 mm
1.5 Nm

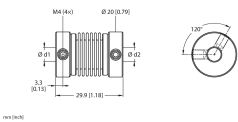
RA-BC-E-20-06-10 100048786



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

● 2 mm
0.7 Nm

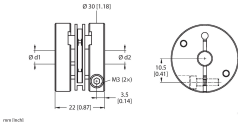
RA-BC-E-20-10-12 100048788



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

● 2 mm
1.2 Nm

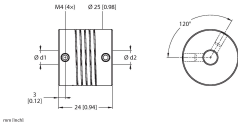
RA-SDC-30-10-12 100048793



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

● 2.5 mm
1.2 Nm

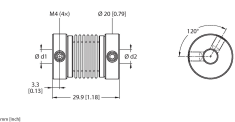
RA-HC-25-10-12 100048797



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

● 2 mm
1.2 Nm

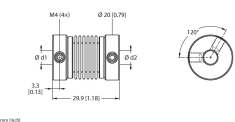
RA-BC-20-08-10 100048781



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

● 2 mm
1.5 Nm

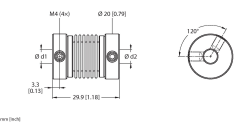
RA-BC-20-10-12 100048783



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

● 2 mm
1.5 Nm

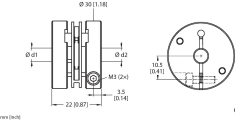
RA-BC-E-20-10-10 100048787



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

● 2 mm
0.7 Nm

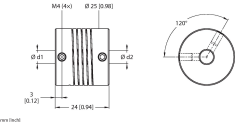
RA-SDC-30-10-10 100048792



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

● 2.5 mm
1.2 Nm

RA-HC-25-10-10 100048796



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

● 2 mm
1.2 Nm