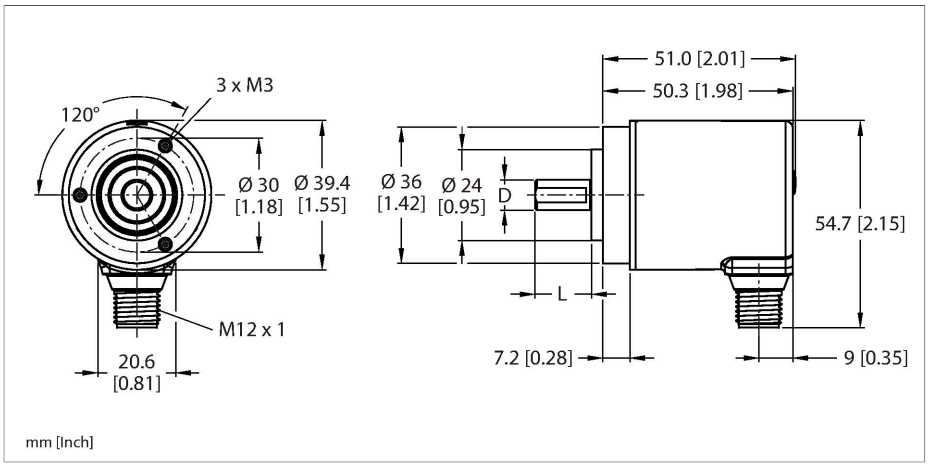
RES-184S6C-9D14B-H1151
Absolute Rotary Encoder - Singleturn
Industrial Line



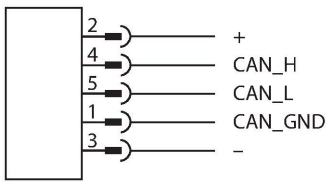
Technical data

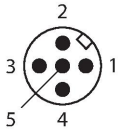
Type	RES-184S6C-9D14B-H1151
ID	100046542
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Starting torque	< 0.01 Nm
Measuring range	0…360 °
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	14 Bit
Electrical data	
Operating voltage U_B	10…30 VDC
No-load current	≤ 90 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	CANopen
Interface	CAN High-Speed in accordance with ISO 11898, basic and full CAN, CAN specification 2.0 B
Node ID	1…127 mit Software konfigurierbar;Werkseinstellung: 63
Baud rate	10…1000 kbps can be configured using software, factory settings 125 kbps
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft

Features

- Clamping flange, Ø 36 mm
- Solid shaft, Ø 6 mm × 12.5 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
- CANopen
- M12 × 1 male connector, 5-pin
- 360° resolved in 14 bit (16384 positions)

Wiring diagram





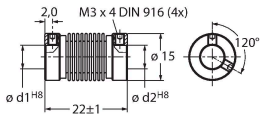
Technical data

Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
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

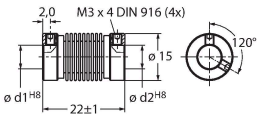
RCS-15-08-06 1545361

Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm



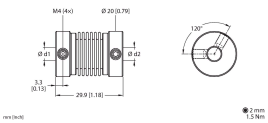
RCS-15-06-06 1545362

Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm



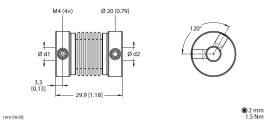
RA-BC-20-06-06 100048777

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



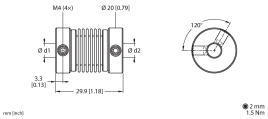
RA-BC-20-06-08 100048778

Bellows coupling with aluminum hub Ø 20 mm; d1 = 6 mm, d2 = 8 mm



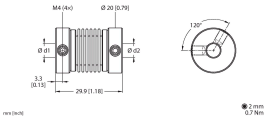
RA-BC-20-06-10 100048779

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



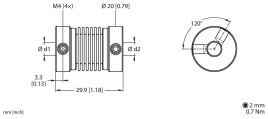
RA-BC-E-20-06-06 100048785

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



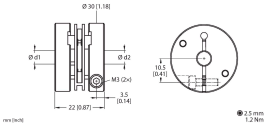
RA-BC-E-20-06-10 100048786

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



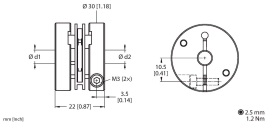
RA-SDC-30-06-10 100048791

Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 10 mm



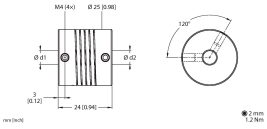
RA-SDC-30-06-06 100048790

Spring disc coupling Ø 30 mm; d1 = 6 mm, d2 = 6 mm

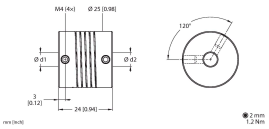


RA-HC-25-06-06 100048794

Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 6 mm

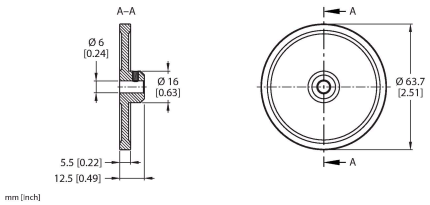
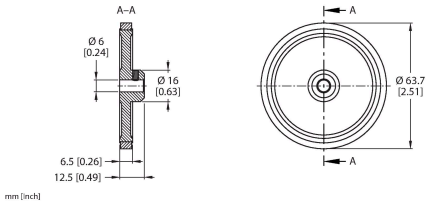
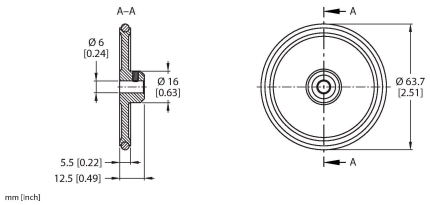
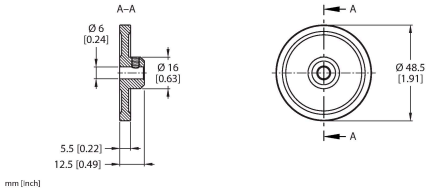
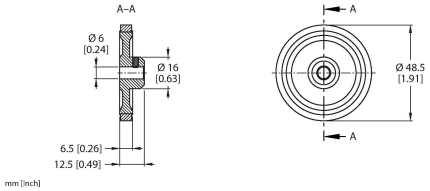
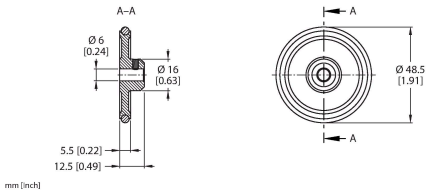


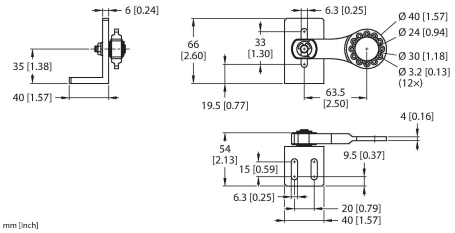
RA-HC-25-06-10	100048795



Aluminum helix coupling Ø 25 mm; d1 = 6 mm, d2 = 10 mm

Accessories

Dimension drawing	Type	ID	
	RA-MW-200-5.5-DK1-6	100038295	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-200-6.5-PS1-6	100038296	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.2 m, width 6.5 mm, D = 6 mm
	RA-MW-200-5.5-OR1-6	100038298	Aluminum measuring wheel (O-ring) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-B0-5.5-DK1-6	100038299	Aluminum measuring wheel (cross knurled) for encoders; circumference 6", width 5.5 mm, D = 6 mm
	RA-MW-B0-6.5-PS1-6	100038300	Aluminum measuring wheel (smooth PU) for encoders; circumference 6", width 6.5 mm, D = 6 mm
	RA-MW-B0-5.5-OR1-6	100038301	Aluminum measuring wheel (O-ring) for encoders; circumference 6", width 5.5 mm, D = 6 mm

Dimension drawing	Type	ID	
	RA-SAB-5-24	100038293	Spring arm for small absolute encoders with a 36-mm flange; recommended contact pressure 5 N; maximum contact pressure 20 N