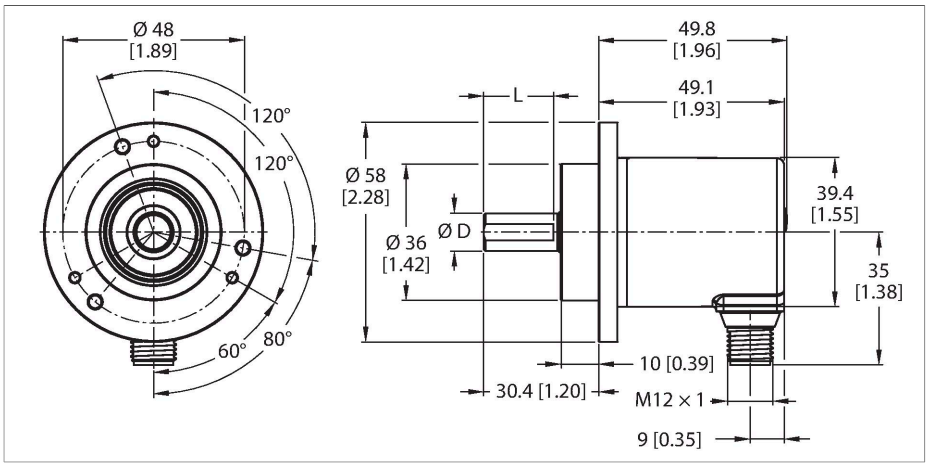
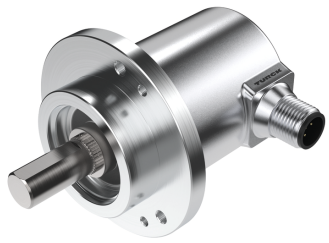
REM-116T6C-8BAL-H1151
Absolute Rotary Encoder - Multiturn
Industrial Line





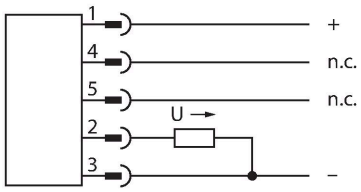
Technical data

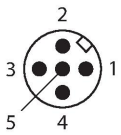
Type	REM-116T6C-8BAL-H1151
ID	100012468
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
Electrical data	
Operating voltage U_B	15…30 VDC
No-load current	≤ 35 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Output function	Analog output
Voltage output	0…10 V
DA converter resolution	12 Bit
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
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
	5-pin
Axial shaft load	40 N

Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 6 mm × 12.5 mm
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40…+85°C
- Max. 4000 rpm (continuous operation: 2000)
- Energy harvesting technology
- 15…30 VDC
- Analog output, 0…10 V per 16 CCW revolutions
- 12-bit resolution
- M12 × 1 male connector, 5-pin

Wiring diagram





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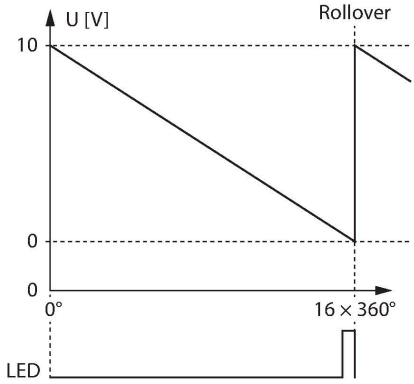
Technical data

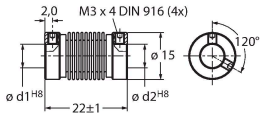
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40…+85 °C
Vibration resistance (EN 60068-2-6)	30 g (300 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	500 g (2500 m/s²), 4 ms
Protection class	IP65
Protection class shaft	IP65



Accessories

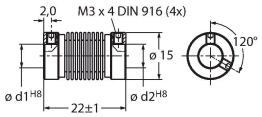
RCS-15-08-06 1545361

Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm



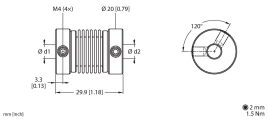
RCS-15-06-06 1545362

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



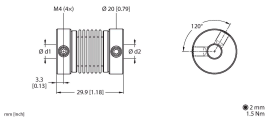
RA-BC-20-06-06 100048777

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



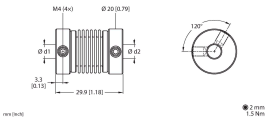
RA-BC-20-06-08 100048778

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



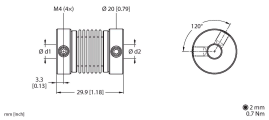
RA-BC-20-06-10 100048779

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



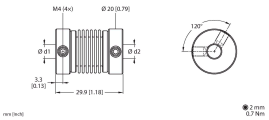
RA-BC-E-20-06-06 100048785

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



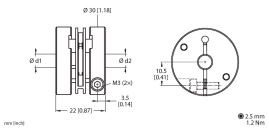
RA-BC-E-20-06-10 100048786

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



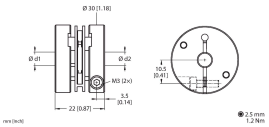
RA-SDC-30-06-10 100048791

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



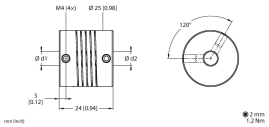
RA-SDC-30-06-06 100048790

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



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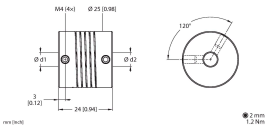
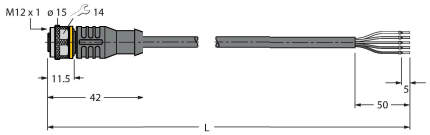
RA-HC-25-06-10	100048795



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

Accessories

Dimension drawing	Type	ID	
	RKC4.5T-2/TEL	6625016	Connection cable, M12 female connector, straight, 5-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

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