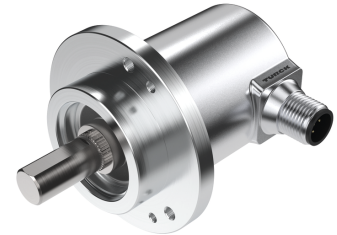
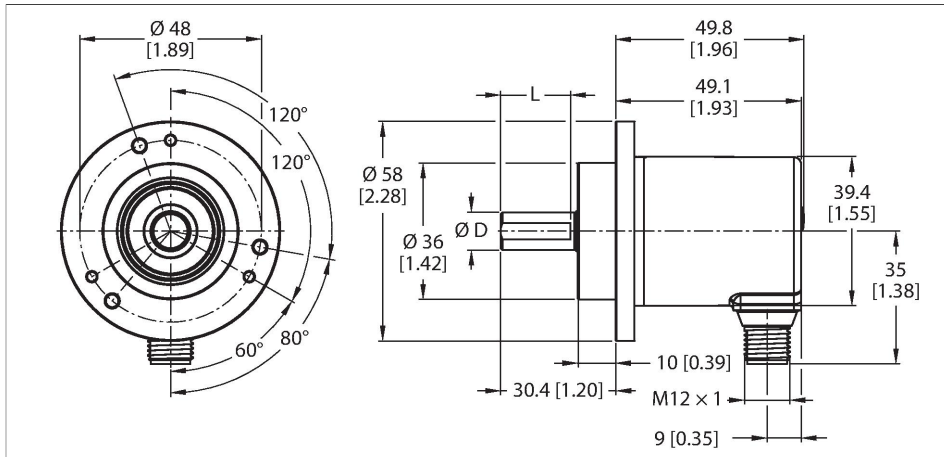


RM-116T10C-8BSARNS-H1151

Absolute Shaft Encoder

Industrial Line



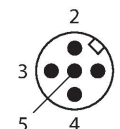
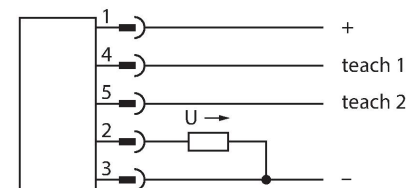
Technical data

Type	RM-116T10C-8BSARNS-H1151
ID	200006714
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Absolute accuracy	$\pm 1^\circ$ At 25 °C
Output type	Absolute multiturn
Electrical data	
Operating voltage U_B	15...30 VDC
No-load current	≤ 30 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)	10
Shaft Length L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

- Ø 58 mm clamping flange
- Solid shaft, Ø 10mm x 20mm
- Optical 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
- 10-30 VDC power supply
- 0-10V Analog Output
- M12 connection, 5-pin

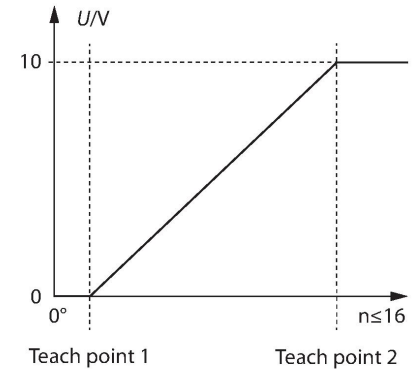
Wiring diagram



Functional principle

Technical data

Electrical connection	Connector, M12 × 1
	5-pin
Axial shaft load	40 N
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



Measuring range settings

Only actuate the teach inputs when the shaft is at a standstill.

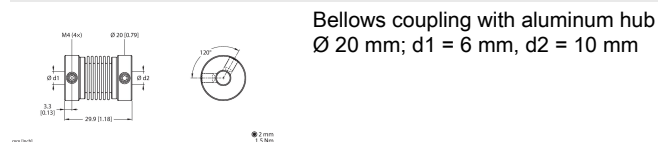
Bridge between Ub (pin 1) and	Teach input teach 1 (pin 4)	Teach input teach 2 (pin 5)	LED
>1 second	Set start position of measuring range		The green LED flashes once
>1 second		Set end position of measuring range. The measuring range must be >22.5°.	The green LED flashes three times
>1 second	Reset to factory setting		The LED flashes green, red, green

If the teach inputs are not used, they should be set to 0 V (GND ground) to avoid faults.

Pin assignment	3	1	2	4	5
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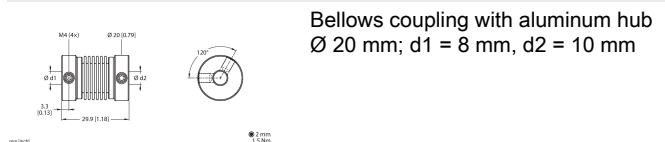
Accessories

RA-BC-20-06-10 100048779



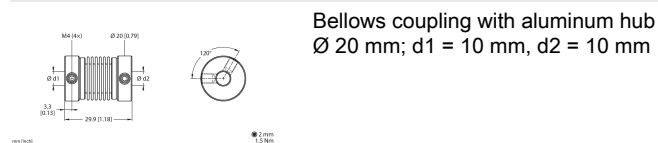
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 10 mm

RA-BC-20-08-10 100048781



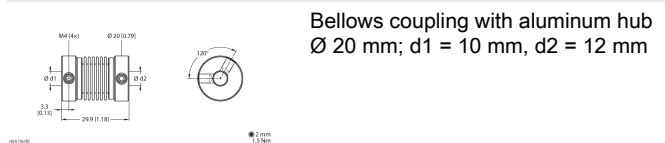
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 8 mm, d2 = 10 mm

RA-BC-20-10-10 100048782



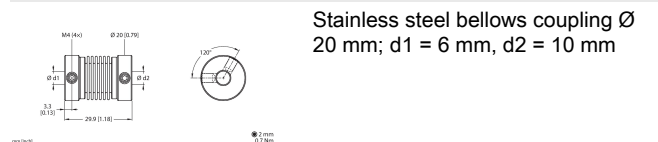
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 10 mm, d2 = 10 mm

RA-BC-20-10-12 100048783



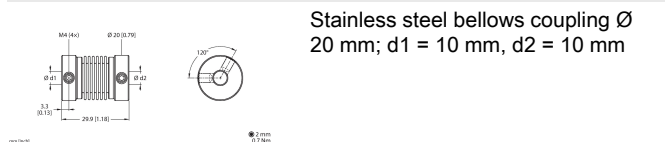
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 10 mm, d2 = 12 mm

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



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

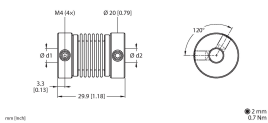
RA-BC-E-20-10-10 100048787



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

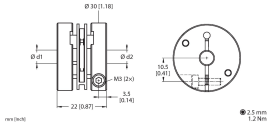
RA-BC-E-20-10-12 100048788

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



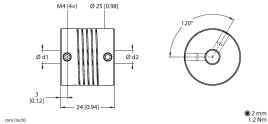
RA-SDC-30-10-12 100048793

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



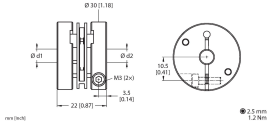
RA-HC-25-10-12 100048797

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



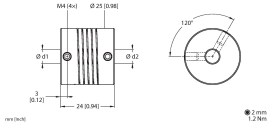
RA-SDC-30-10-10 100048792

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



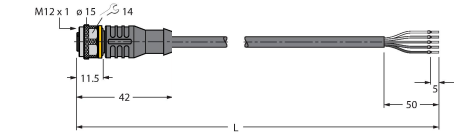
RA-HC-25-10-10 100048796

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



Wiring 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