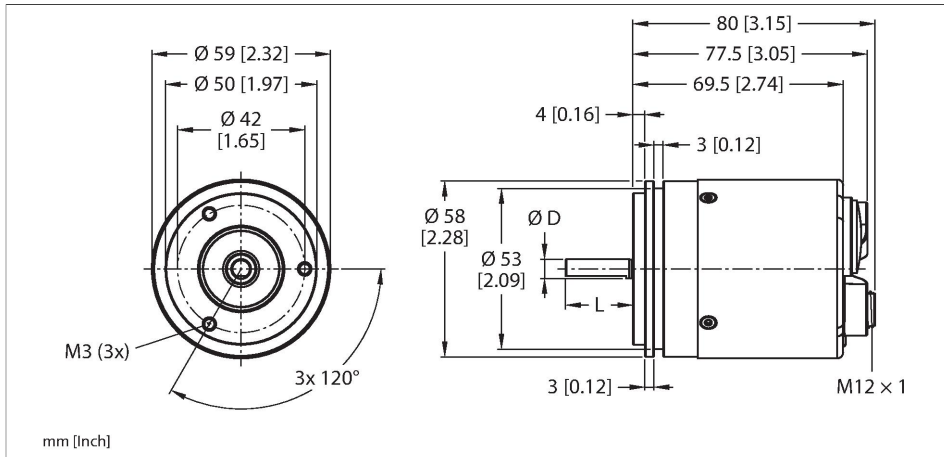


RM-105S10S-9N43B-B3M12

Absolute Rotary Encoder - Multiturn

Industrial Line



Technical data

Type	RM-105S10S-9N43B-B3M12
ID	200013646
Measuring principle	Optical
General data	
Max. rotational speed	9000 rpm
Moment of inertia of the rotor	$3 \times 10^{-6} \text{ kgm}^2$
Absolute accuracy	$\pm 0.015^\circ$ At 25°C
Output type	Absolute multiturn
Resolution singleturn	19 Bit
Resolution multiturn	24 Bit
	Singleturn scalable
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	$\leq 250 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	EtherNet/IP
Mechanical data	
Flange type	Synchro flange
Flange diameter	$\varnothing 58 \text{ mm}$
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20

Features

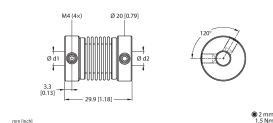
- $\varnothing 58 \text{ mm}$ servo flange
- Solid shaft, $\varnothing 10 \text{ mm} \times 20 \text{ mm}$
- Optical measuring principle
- Shaft material, stainless steel
- IP67 rated on shaft side
- $-40 \dots +80^\circ\text{C}$
- Max. 9000 rpm
- 10...30 VDC
- Ethernet/IP
- M12 x 1 male connector for power, 4-Pin A-code
- (2X) M12 female connector for data, 4-pin-D-code
- Singleturn resolution scalable to 19 bit (default 18 bit)
- Multiturn resolution scalable to 24 bit (default 12 bit)

Technical data

Shaft material	Stainless steel
Housing material	Aluminium
Electrical connection	Connector, 3 x M12
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+80 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s ²), 55...2000 Hz
Shock resistance (EN 60068-2-27)	250 g (2500 m/s ²), 6 ms
Protection class	IP67
Protection class shaft	IP67

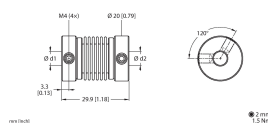
Accessories

RA-BC-20-06-10 100048779



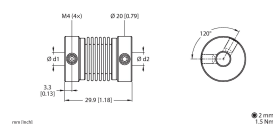
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 10 mm

RA-BC-20-08-10 100048781



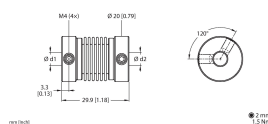
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 8 mm, d2 = 10 mm

RA-BC-20-10-10 100048782



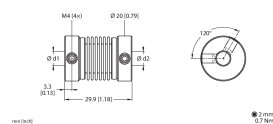
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 10 mm, d2 = 10 mm

RA-BC-20-10-12 100048783



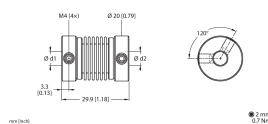
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 10 mm, d2 = 12 mm

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



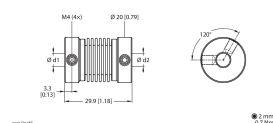
Stainless steel bellows coupling Ø
20 mm; d1 = 6 mm, d2 = 10 mm

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



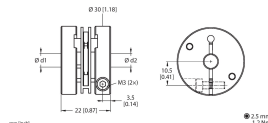
Stainless steel bellows coupling Ø
20 mm; d1 = 10 mm, d2 = 10 mm

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



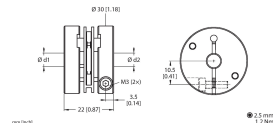
Stainless steel bellows coupling Ø
20 mm; d1 = 10 mm, d2 = 12 mm

RA-SDC-30-10-10 100048792



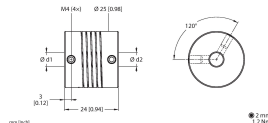
Spring disc coupling Ø 30 mm; d1 =
10 mm, d2 = 10 mm

RA-SDC-30-10-12 100048793



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

RA-HC-25-10-10 100048796



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

RA-HC-25-10-12

100048797

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

