

REM-99S6C-3C12S12M-H1181
Absolute Rotary Encoder - Multiturn
Industrial Line



Technical data

Type	REM-99S6C-3C12S12M-H1181
ID	100011239
Measuring principle	Magnetic
General data	
Max. Rotational Speed	4000 rpm
Starting torque	< 0.01 Nm
Repetition accuracy	± 0.2 ° At 25 °C
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
Resolution singleturn	12 Bit
Resolution multiturn	12 Bit
Electrical data	
Operating voltage U _B	10...30 VDC
No-load current	≤ 40 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
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)	6



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)
- Energy harvesting technology
- 10...30 VDC
- SSI, gray
- M12 × 1 male, 8-pin
- Singleturn, 12-bit resolution
- Multiturn, 12-bit resolution

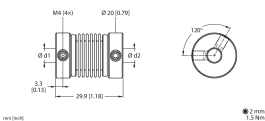
Wiring diagram



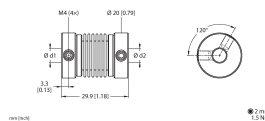
Technical data

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/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP67

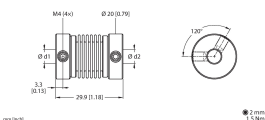
Accessories

RA-BC-20-06-06
100048777


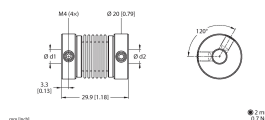
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 6 mm

RA-BC-20-06-08
100048778


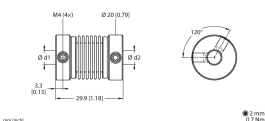
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 8 mm

RA-BC-20-06-10
100048779


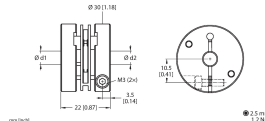
Bellows coupling with aluminum hub
Ø 20 mm; d1 = 6 mm, d2 = 10 mm

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


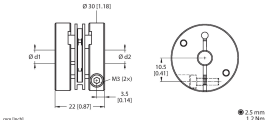
Stainless steel bellows coupling Ø
20 mm; d1 = 6 mm, d2 = 6 mm

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


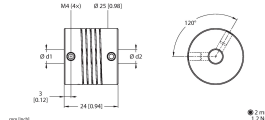
Stainless steel bellows coupling Ø
20 mm; d1 = 6 mm, d2 = 10 mm

RA-SDC-30-06-10
100048791


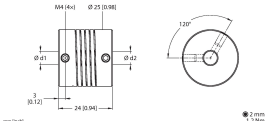
Spring disc coupling Ø 30 mm; d1 =
6 mm, d2 = 10 mm

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	
	E-RKC 8T-264-2	U-04781	Connection cable, female M12, straight, 8-pin (twisted pairs), shielded, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com