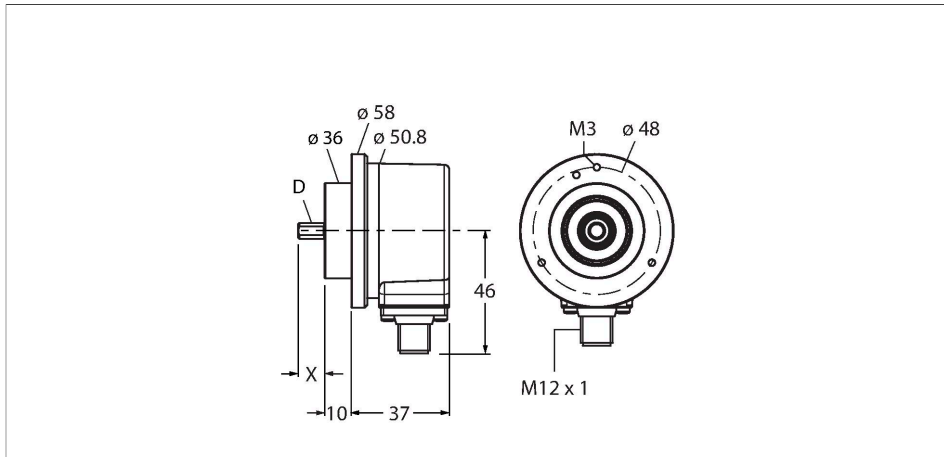


# REI-E-113T12C-2B2500-H1181

## Incremental Encoder

### Efficiency Line



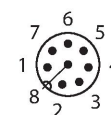
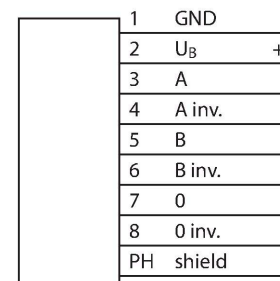
#### Technical data

Type	REI-E-113T12C-2B2500-H1181
ID	100011578
Measuring principle	Optical
<b>General data</b>	
Max. rotational speed	4500 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-6} \text{ kgm}^2$
Starting torque	$< 0.05 \text{ Nm}$
Output type	Incremental
Resolution incremental	2500 ppr
<b>Electrical data</b>	
Operating voltage $U_b$	10...30 VDC
No-load current	$\leq 100 \text{ mA}$
Output current	$\leq 30 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. $U_b - 1 \text{ V}$
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, with inverted signals
<b>Mechanical data</b>	
Flange type	Clamping flange
Flange diameter	$\varnothing 58 \text{ mm}$
Shaft Type	Solid shaft

#### Features

- Clamping flange,  $\varnothing 58 \text{ mm}$
- Solid shaft,  $\varnothing 12 \text{ mm} \times 20 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- $-20 \dots +70 \text{ }^\circ\text{C}$
- Max. 4500 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Male connector, M12 x 1, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 2500 pulses per revolution

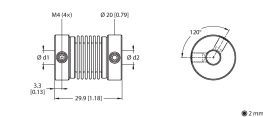
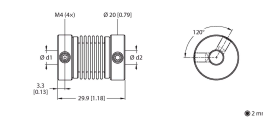
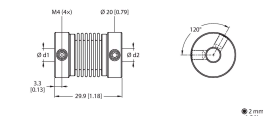
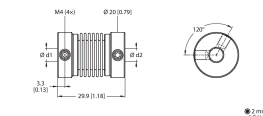
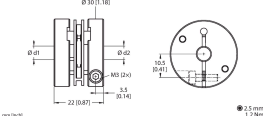
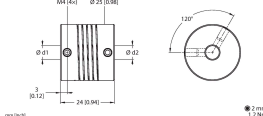
#### Wiring diagram




## Technical data

Shaft diameter D (mm)	12
Shaft Length L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
<b>Environmental conditions</b>	
Ambient temperature	-20...+70 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s <sup>2</sup> ), 10...2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s <sup>2</sup> , 6 ms
Protection class	IP64
Protection class shaft	IP64

## Accessories

<p><b>RA-BC-20-10-12</b> <span style="float: right;">100048783</span></p>  <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 12 mm</p>	<p><b>RA-BC-20-12-12</b> <span style="float: right;">100048784</span></p>  <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 12 mm, d2 = 12 mm</p>
<p><b>RA-BC-20-08-12</b> <span style="float: right;">100049106</span></p>  <p>Bellows coupling with aluminum hub Ø 20 mm; d1 = 8 mm, d2 = 12 mm</p>	<p><b>RA-BC-E-20-10-12</b> <span style="float: right;">100048788</span></p>  <p>Stainless steel bellows coupling Ø 20 mm; d1 = 10 mm, d2 = 12 mm</p>
<p><b>RA-SDC-30-10-12</b> <span style="float: right;">100048793</span></p>  <p>Spring disc coupling Ø 30 mm; d1 = 10 mm, d2 = 12 mm</p>	<p><b>RA-HC-25-10-12</b> <span style="float: right;">100048797</span></p>  <p>Aluminum helix coupling Ø 25 mm; d1 = 10 mm, d2 = 12 mm</p>

## Wiring accessories

Dimension drawing	Type	ID	
	RKC8T-2/TXL	6625142	Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

Dimension drawing

Type  
WKC8T-2/TXL

ID  
6625145

Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

