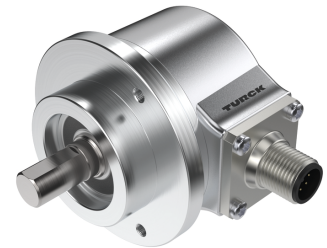


REI-E-113T12C-2B1024-H1181

Incremental Encoder

Efficiency Line



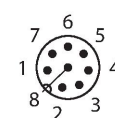
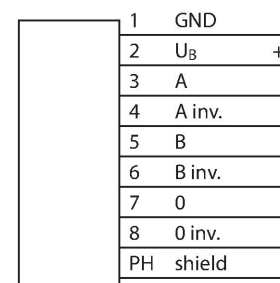
Technical data

Type	REI-E-113T12C-2B1024-H1181
ID	100011576
Measuring principle	Optical
General data	
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	1024 ppr
Electrical data	
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
Mechanical data	
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
- 1024 pulses per revolution

Wiring diagram



Technical data

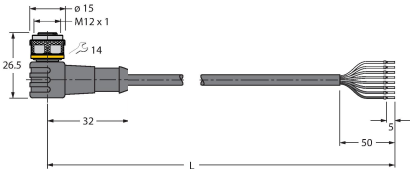
Shaft diameter D (mm)	12
Shaft Length L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-20...+70 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class	IP64
Protection class shaft	IP64

Accessories

RA-BC-20-10-12	100048783	Bellows coupling with aluminum hub Ø 20 mm; d1 = 10 mm, d2 = 12 mm
RA-BC-20-12-12	100048784	Bellows coupling with aluminum hub Ø 20 mm; d1 = 12 mm, d2 = 12 mm
RA-BC-20-08-12	100049106	Bellows coupling with aluminum hub Ø 20 mm; d1 = 8 mm, d2 = 12 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

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	ID	
	WKC8T-2/TXL	6625145	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval