

REI-12HA4E-4B2500-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-12HA4E-4B2500-H1181
ID	100010542
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	6 × 10 ⁻⁶ kgm ²
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution incremental	2500 ppr
Electrical data	
Operating voltage U _B	5...30 VDC
No-load current	≤ 90 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	RS422/TTL, invertable
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	Ø 63 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	15.875
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

- Flange with stator coupling, Ø 65 mm
- Hollow shaft, Ø 5/8"
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 5...30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 2500 pulses per revolution

Wiring diagram



Technical data

Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s², 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s², 6 ms
Protection class	IP67
Protection class housing	IP65
Protection class shaft	IP67

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